Section 31(a) Quarterly Reports



Skokomish Natural Resources

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October 4, 2005

Deborah D. Burgess
Environmental Protection Agency
Region 10
1200 Sixth Avenue
ECL 110
Seattle, WA 98101

Dear Deborah

Here is the last quarterly report for Brownfield 97071401. A final report will be submitted within 90 days of this report.

On a personal note I just wanted to thank you for all the support and guidance as we made our way through the requirements of this grant. Your comments and timely phone and e-mails were very professional and helpful. You made the requirements do-able. If I our natural resources staff can be of any assistance in the future please let us know.

Again, thank you.

Ron Figlar-Barnes

Skokomish Natural Resources Planner

CC

Keith Dublanica

Attachments

Brownfield's Quarterly Report #8 July 1 ---Sept 30, 2005

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1. Modification of Work Plan:

There was no modification of work plan.

SCHEDULE

Table 1. WSDOT Potlatch Maintenance Yard Environmental Assessment Schedule of Work Pacific Groundwater Group Team

	2004		2005			VE ASSA			
Tasks	November	December	January	February	March	April	May	June	July
Fask 1. Develop Project Understanding									
Review Site History Documents	The state of the s	***************************************			***************************************				
Project Kick-off Meeting with Tribe	Andrew Control of the	######################################	ļ						
Revise Proposed Approach		And the second s		-	-		-	ļ	
Task 2. Develop QAPP									
Draft QAPP to EPA		described and the same of the				-			
Final QAPP				Attitudes		 		***************************************	-
ask 3. Soil Investigation		THE PARTY OF THE P	THE RESERVE OF THE PROPERTY OF						
Test Pits		**************************************	mana mana mana mana mana mana mana mana					***************************************	
Surface Soil Samples		***************************************	THE RESERVE OF THE PARTY OF THE				***************************************	Marie de la company de productiva de describer de la company de la compa	***************************************
Task 4. Groundwater Investigation	Market Committee	***				Comment of the control of the contro			
Monitoring Well Installation		······································	******************************	-				1	
Monitoring Well Survey		**************************************	granina Managara and april and a second second second second				-		
Groundwater Sampling	en a transitati na transitati na managama en en en en entre a transitati de la companya del companya del compa Per la companya del compa				-==			***************************************	-
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Draft Report			***************************************	-					
Final Report				1	 				
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Project Management	THE COURSE WAS A STREET OF STREET, WHITE STREET, WAS A STREET OF STREET, WHITE STREET, WHITE STREET, WAS A STREET, WHITE STREET, WHITE STREET, WAS A STREET, WHITE STREET,		Andrea in the contract of the		anthologians. To an an annumeric court	The second second second second			
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This schedule is presented to depict the relative timing of tasks. PGG frequently completes similar investigations and reporting in a fraction of the time. Therefore, PGG can easily expedite the schedule or adjust based on the availability of the backhoe or other needs of the Tribe or USEPA.

2. Progress Report:

TASK 1. PROJECT PLANNING, IMPLEMENTATION, AND MANAGEMENT

This task according to our Work Plan (10/06/04) includes all activities that are required to establish planning priorities, implementation and project support activities, as well as all grant tracking, reporting, and other management components of the cooperative agreement. Specific activities include;

- 1. Project management and coordination
- 2. Financial tracking
- 3. Facilitation of public meetings
- 4. Quarterly & final report creation

Project management and coordination:

Meetings where held between Tribal staff to continue to have oversight on the project management and coordination activities included project planning. Staff included:

Ron Figlar-Barnes (Natural Resources Planner) Keith Dublanica (Natural Resources Director) Ed Binder (Senior Tribal Planner)

The project management and coordination of the grant included,

- Communication between EPA and the Tribe regarding task completion.
- Finalization of the draft final assessment report provided by the Pacific Groundwater Group.
- Site visits by PPG consultants.
- Analysis of Samples.

Pacific Groundwater Group Work Report as of September 30, 2005:

The tasks performed this reporting period included:

PPG performed soil sampling throughout the site in accordance with the approved QAPP. Groundwater sampling was performed in July. PPG analyzed the analytical results in August and completed a draft report in September (draft report attached). The Skokomish Tribal staff has commented on the draft and a final report is being written by PPG incorporating Tribal input.

In general, the finding of the draft environmental assessment does not indicate the need for further investigations on the site.

Financial Tracking:
EPA Grants and Project Coordinator

	W325 - WSDOT Brownfields For Quarter 07/1/05 - 09/30/05	
Account Code	Account Title	Quarter Actual
6000	Salaries & Wages	2907.86
6120	Employer's FICA	218.19
6140	Workers' Comp/L&I Insurance	205.37
6150	State Unemployment	69.81
6210	Medical Insurance	241.86
6220	Dental Insurance	22.47
6230	Life Insurance	7.44
6260	LT Disability Insurance	8.93
7030	Contracted Services	29,006.97
7110	Program Supplies	0.00
7470	Maintenance & Repair	535.00
7530	Equipment Rental or Lease	0.0
7555	Computer Hardware	93.98
7810	Mileage/Parking & Tolls	38.64
7840	Lodging & Per-diem	0.00
7870	Conference Fees & Registration	0.00
9060	Advertising	0.00
	Total W325 - WSDOT Brownfields	\$33,356.50

Last payroll and ending year entries are not entered or posted.

Facilitation of Public Meeting:

Done

TASK 2. HISTORIC/BACKGROUND INFORMATION SEARCH

Done

TASK 3 HYDROLOGICAL, GEOLOGICAL, AND BIOLOGICAL STUDY

Done

TASK 4 DATA ANALYSIS AND EVALUATION OF RISK

Final report is underway

TASK 5 IDENTIFY CLEAN-UP ALTERNATIVES AND REPORT FINDINGS

Final report is underway

WSDOT-POTLATCH MAINTENANCE YARD ENVIRONMENTAL ASSESSMENT

WSDOT-POTLATCH MAINTENANCE YARD ENVIRONMENTAL ASSESSMENT

Prepared for:

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> September 8, 2005 JK0411 Draft Report.doc

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TABLES

Table 1: Analytical Summary for Surficial Soil Samples and Test Pit Soil Samples

Table 2: Analytical Summary for Groundwater Samples

Table 3: Surficial Soil Samples cPAH Evaluations

FIGURES

Figure 1: Brownfield WSDOT Potlatch Maintenance Yard Vicinity

Figure 2: WSDOT Potlatch Maintenance Yard Environmental Assessment

APPENDICES

Appendix A: Test Pit Logs and Well Construction As-Built

Appendix B: Laboratory Analytical Reports



This report, and Pacific Groundwater Group's work contributing to this report, were reviewed by the undersigned and approved for release.

Janet Knox

Principal Environmental Geochemist Washington State Geologist No. 413

1.0 INTRODUCTION

The Washington State Department of Transportation formerly operated a maintenance yard near Potlatch, Washington within the boundaries of the Skokomish Indian Reservation (Figure 1). The Skokomish Tribe wishes to make a reasonable and best use of this property.

The Tribe initiated this environmental assessment of the property to investigate the potential presence of contaminants in soil or groundwater.

2.0 SUMMARY OF FINDINGS

The following summarizes the work performed under this Environmental Assessment and the analytical results.

- Monitoring well Skok-5 was installed at the WSDOT-Potlatch site. Heaving sand indicating high groundwater yield, were encountered during drilling.
- Groundwater was encountered at approximately 17 feet below ground surface during drilling. Groundwater was not encountered during test pit excavation (5.5 to 7.5 feet in depth).
- Surficial soil, test pit soil, and groundwater samples were collected and analyzed for the site contaminants of concern or a subset. These site contaminants of concern are based on past land use practices and include petroleum hydrocarbons, metals, polyaromatic hydrocarbons (PAHs), polychlorinated biphenyls (PCBs), pesticides, volatile organic compounds (VOCs), the nitrate suite, and coliform.
- PGG does not recommend remedial action at the WSDOT-Potlatch site based on the analytical findings of this Environmental Assessment.
- Analytical results indicate that metals, PAHs, and conventional parameters were detected in surficial soil samples. The concentrations do

- not exceed Model Toxics Control Act (MTCA) Method A cleanup criteria.
- The surficial soils collected under this scope of work do not have detectable concentrations of PCBs, pesticides, and VOCs. Diesel was detected in the petroleum screening analysis of one surficial soil sample, but was not detected in an analysis specifically for diesel.
- Soil samples collected from the bottom of four test pits do not have detectable concentrations of petroleum compounds.
- Analytical results indicate that total metals and conventional parameters were detected in groundwater samples. The concentration of total arsenic in a sample from monitoring well Skok-3 exceeds the MTCA Method A cleanup level and the concentration of total chromium in the sample exceeds the MTCA Method A cleanup level and the WAC 173-200-040 criteria. The concentration of total barium exceeds the MTCA Method B cleanup level. Concentrations of the remaining metals and conventional parameters analyzed do not exceed MTCA Method cleanup levels or WAC 173-200-040 criteria.
- Analytical results indicate that dissolved metals concentrations do not exceed MTCA cleanup levels or WAC 173-200 criteria.
- Petroleum hydrocarbons, PAHs, PCBs, pesticides, and VOCs were not detected in groundwater samples collected as part of this investigation.
- The findings of the environmental assessment do not indicate the need for further investigation or remedial action. The site is recommended for no further action and closure. The Skokomish Indian Tribe may consider sampling of the private drinking water wells immediately east of the site due to the presence of some metals in total metals samples from one well.

3.0 SITE OPERATING HIS-TORY

The Washington State Department of Transportation (WSDOT) formerly operated a maintenance yard near Potlatch, Washington within the boundaries of the Skokomish Indian Reservation (Figure 1). Specifically, the site is located on the west side of State Route 101 at milepost 336.2 and is herein referred to as the WSDOT-Potlatch site (Figure 2).

WSDOT used the 14-acre parcel to store road maintenance equipment and road debris from approximately the 1950s through recent years. The site was also used as a gravel pit. In 1999 WSDOT transported wet soil and debris from two large landslides along Highway 101 to the site and distributed the spoils over most of the area previously excavated for gravel. The debris is in the northern portion of the site and is at least 12-feet thick in most places (Figure 2).

The property ownership was transferred to the Skokomish Tribal Nation. Because of historical use of the site, it is considered a "Brownfield site," meaning the redevelopment or reuse of the property may be complicated by the presence or potential presence of a hazardous substance, pollutant, or contaminant. The site is underutilized in its current condition.

The Skokomish Tribe wishes to make reasonable and best use of this property which may be development of a wastewater treatment facility.

The Tribe intends to perform an environmental assessment of the WSDOT-Potlatch site. The objectives of the project are to investigate the potential presence of hazardous substances, or contaminants, in soil and groundwater.

3.1.1 Previous Investigations and Studies

Previous work at the WSDOT-Potlatch site includes an Underground Storage Tank Site Assessment and Closure and a preliminary Hydrogeologic Study and Groundwater Mounding Analysis.

CEcon Corporation of Tacoma, Washington, were contracted to remove two 1,000 gallon diesel underground storage tanks (USTs) and one 500 gallon unleaded gasoline UST from the WSDOT-Potlatch site. The tanks were removed on April 20, 1995 according to applicable regulations, as we understand. The three tanks had extensive corrosion but no holes were visible. In addition to the UST removal, a gas house was demolished and fuel dispensers were removed. Soil samples were taken from the excavations to assess possible residual contamination. The samples were analyzed for the respective petroleum product most likely to be in the sample based on the fuel type of the UST and/or dispenser. The analytical results indicated the concentrations of gasoline, diesel, BTEX, and lead in the soil samples were below Ecology's MTCA Method A cleanup levels. The excavations were backfilled with pit run.

A preliminary hydrogeologic study was conducted at the WSDOT-Potlatch site between June 1999 and May 2000 to evaluate the suitability of the site for rapid infiltration of treated municipal effluent. Four groundwater monitoring wells were installed at the site during this study that were monitored for water level and water quality. Test pits and percolation tests were included in the field study. A modeling analysis was also performed to estimate the mounding potential of the aquifer.

The hydrogeologic study indicates the unsaturated zone at the site is 15 - 28 feet thick and groundwater levels vary seasonally by 1 - 4 feet. Coarse, outwash material was identified at the center of the site that is highly permeable. Debris soil imported to the northern portion of the site has low permeability. Another low permeability zone was identified in the south-west portion of the site.

4.0 CLEANUP CRITERIA

Model Toxic Control Act (MTCA) Method A cleanup criteria (WAC 173-340-900) were applied to the soil and groundwater analytical data set to provide conservative cleanup levels for sites undergoing routine cleanup actions or for sites with relatively few hazardous substances (WAC 173-340). In addition to MTCA Method A, groundwater data were compared to the Water Quality Standards for Ground Waters of the State of Washington (WAC 173-200-040). Where no Method A cleanup levels are established, Method B cleanup levels were used for comparison.

5.0 CONTAMINANTS OF CONCERN

Based on site history the contaminants of concern include:

- Petroleum (gasoline, benzene, ethylbenzene, toluene, and xylenes (BETX); diesel; oil; 1,2dibromoethane; 1,2-dichloroethane; methyl tertiary butyl ether; and naphthalenes)
- Volatile Organic Compounds (VOCs)
- Metals
- Polyaromatic hydrocarbons (PAHs) from petroleum or creosote sources
- · Pentachlorophenol, a wood preservative
- Possibly nitrate and nitrite
- Possibly coliform from former septic system
- Possibly limited pesticides
- Possibly PCBs

6.0 BROWNFIELD INVESTI-GATION

The Brownfield investigation of soil and groundwater quality at the WSDOT-Potlatch site was performed in general accordance with the

Brownfield WSDOT Potlatch Maintenance Yard Environmental Assessment Quality Assurance Project Plan (PGG, 2005). Locations of the surficial soil samples, test pits, and monitoring wells are presented in Figure 2.

Friedman & Bruya, Inc., a Washington state certified laboratory located in Seattle, Washington, provided analytical services for this investigation. They subcontracted some analyses to Analytical Resources, Inc., another Washington certified lab located in Tukwila, Washington. Drilling services were provided by Geotechnical Testing Laboratory, of Olympia, Washington.

6.1 SOIL INVESTIGATION

The soil investigation involved collecting samples of surficial soil and soil within approximately 10 feet of ground surface for analysis of suspected contaminants of concern.

6.1.1 Surficial Soil

Surface soil samples were collected by representatives of PGG from five different locations between June 29, 2005 and July 11, 2005 from locations presented in Figure 2. The surficial soil samples are designated SS-1 through SS-5. These locations are consistent with those proposed in the Brownfield WSDOT Potlatch Maintenance Yard Environmental Assessment Quality Assurance Project Plan (QAPP) with the exception of SS-1. The objective of the surface soil sampling was to investigate possible "hot spots." The sampling design for the surface soil samples was judgmental with locations based on site historic practices and field observations. The surficial soil locations were sampled once under this environmental assessment and one soil sample will be collected at each location.

The locations were selected based on known or suspected use of hazardous substances. The sampling sites were located visually using site landmarks (building slab, debris piles etc.) The rationale for each sample is:

- Sample SS-1 was intended to be collected in an area where paint chips and debris were observed. However; the asphalt ground cover in the proposed area prevented sampling and the location was moved approximately 25 feet north.
- Sample SS-2 was collected from an area where reportedly oil-contaminated soil removed from a drainfield was stored.
- Sample SS-3 was collected at the base of the sander rack built from creosote logs where stained soil was observed during a preliminary site visit.
- Sample SS-4 was collected near a corrugated metal loader shed where 5gallon buckets of tar were observed.
- The location for sample SS-5 was intended to be selected in the field based on visual observations of soil staining, odor, or soil storage. Because these conditions were not observed, sample SS-5 was collected near the entry gate to the property which would have experienced the most traffic flow.

Surficial soil samples were submitted to Friedman & Bruya, Inc. (F&BI) for analyses presented in Table 1 and listed below:

- Hydrocarbon identification (HCID) and gasoline, diesel-extended, or BETX, 1,2-Dibromoethane, 1,2-Dichloroethane, Methyl Tertiary-butyl ether, Naphthalenes as indicated by the HCID results (5 samples)
- PAHs, PCBs, pesticides, and metals (4 samples)
- Pentachlorophenol (1 sample)

6.1.2 Test Pit Soil

In addition to the surficial samples, soil samples were collected from the bottom of test pits excavated as part of this investigation. The test pits were excavated by a Skokomish Tribe backhoe operator and sampled by a PGG representative

between June 29, 2005 and June 30, 2005 at locations presented in Figure 2. These locations are consistent with those proposed in the QAPP. The objectives of the test pits were to characterize and sample soil efficiently and cost-effectively. The sampling design for the test pit samples was judgmental with locations based on site historic practices.

Test pit depths ranged from 5.5 to 7.5 feet below ground surface (bgs). Excavated material was temporarily stored adjacent to the test pit during sample collection. One soil sample was collected from the floor of each test pit near the approximate center. The test pit soil samples are designated BHP- and were submitted to F&BI for analysis of the parameters summarized in Table 1 and presented below:

 HCID and gasoline, diesel-extended, or BETX, 1,2-Dibromoethane, 1,2-Dichloroethane, Methyl Tertiary-butyl ether, Naphthalenes as indicated by the HCID results

Visual and olfactory indications of soil contamination in the floors or sidewalls of the test pits were not noted in the field by representatives of PGG. Geologic logs of the test pit excavations are shown in Appendix A. Groundwater was not encountered by the WSDOT-Potlatch test pits. Following collection of the soil samples from the test pits, they were backfilled with the excavated material.

6.2 WELL INSTALLATION

Four groundwater monitoring wells (Skok-1 through Skok-4) installed during previous investigations are present at the WSDOT-Potlatch site. One additional monitoring well (Skok-5) was installed under this scope of work. Well locations are presented in Figure 2.

Geotechnical Testing Laboratory of Olympia, Washington, provided drilling services. On June 29, 2005, GTL used a hollow stem auger rig to advance 8-inch diameter augers. Soil samples were collected using an 18-inch long split spoon

at 5 foot intervals. During drilling, observations were recorded by a PGG representative of subsurface stratigraphy, soil characteristics of split spoon samples, evidence of contamination, blow counts for split spoon penetration, and pertinent driller's comments.

At 25 feet below ground drilling was hampered by heaving sand and at 30 feet below ground the split spoon sampler was blocked, likely by large gravel or cobbles. The augers were retrieved from the borehole and it was allowed to collapse.

They returned to the WSDOT-Potlatch site on July 19, 2005 with a larger drilling rig, abandoned the new well, and drilled and installed the new well, Skok-5. The well was constructed with 2-inch diameter PVC screen and riser pipe as described above. The screened interval in Skok-5 is 18 to 28 feet bgs Details of the well construction are presented with the geologic log in Figure 3.

6.3 GROUNDWATER SAMPLING

Groundwater samples were collected by PGG representatives from the WSDOT-Potlatch monitoring wells Skok-1 through Skok-5 between July 11, 2005 and July 21, 2005. A portable, submersible pump was used to purge and sample the monitoring wells in accordance with the QAPP.

Groundwater samples were submitted to F&BI for analyses presented in Table 2 and listed below:

- HCID and gasoline, diesel-extended, and/or BETX, 1,2-Dibromoethane, 1,2-Dichloroethane, Methyl Tertiary-butyl ether, Naphthalenes as indicated by the HCID results (6 wells).
- PAHs, PCBs, pesticides, metals, volatile organic compounds, nitrates, and coliform (4 wells).

7.0 ANALYTICAL RESULTS

Analytical results of surficial soil, test pit soil, and groundwater samples are discussed in the following sections. The data are summarized in Tables 1 and 2 and laboratory reports are presented in Appendix B.

7.1 SURFICIAL SOIL

Surficial soil samples identified SS-1 through SS-5 were collected at the WSDOT-Potlatch site from areas where historic use of hazardous substances are known or suspected (Section 6, Figure 2). The samples were analyzed for the contaminants of concern or a subset of the contaminants of concern (Section 5).

7.1.1 Petroleum Hydrocarbon

The Hydrocarbon Identification (HCID) analysis was used as a screening tool during this investigation. Sufficient sample volume was collected for NWTPH analysis of gasoline, diesel, and motor oil; however, these analyses were only performed if results of the HCID indicated these parameters were present (Table 1).

The HCID analysis of the surficial soil samples indicated that hydrocarbons were not detectable with the exception of heavy oil in sample SS-1. Motor oil range hydrocarbons were not detected in the NWTPH analysis of SS-1 (Table 1).

7.1.2 Metals

The surficial soil samples were analyzed for the RCRA metals. Barium, chromium, and lead were detected in samples SS-1, SS-2, SS-4, and SS-5 in concentrations that do not exceed MTCA Method A cleanup levels. The concentrations of barium in the samples range from 21 to 24 parts per million or micrograms per gram (ug/g), which is equivalent to milligrams per kilogram (mg/kg); a MTCA Method A criteria for barium has not been established; the levels found are much lower than Method B cleanup levels (Table 1). The concentrations of chromium in the sample range from 11 to 15 ug/g

and the MTCA Method A criteria for chromium is 2000 ug/g. The concentrations of lead in the surficial soil samples range from 13 to 26 ug/g and the MTCA Method A criteria for lead is 250 ug/g (Table 1).

7.1.3 Polyaromatic Hydrocarbon

Polyaromatic Hydrocarbon (PAH) compounds were detected in surficial soil samples SS-4 and SS-5 and were not detected in samples SS-1 and SS-2. Non-carcinogenic PAHs, fluoranthene and pyrene, were detected in SS-1 and SS-5 for which cleanup levels have not been established under MTCA Method A, however the levels found are much lower than the Method B cleanup levels (Table 1). Carcinogenic PAHs were not detected in SS-4, but carcinogenic PAHs chrysene and benzo(k)fluoranthene were detected in SS-5. Because multiple carcinogenic PAHs were detected, under MTCA Method A the total carcinogenic concentration using the toxicity equivalency methodology (WAC 173-340-708) should be calculated and compared to the cleanup level. This analysis indicates the total concentration of carcinogenic PAHs in SS-5 do not exceed the MTCA Method A cleanup level. The results of this calculation are presented in Table 3.

7.1.4 Pentachlorophenol

Sample SS-3 was analyzed for pentachlorophenol. The concentration reported for SS-3 is 0.2 ug/g, which is below the normal detection limit (0.3 ug/g). Therefore, this result is considered a non-detect and is qualified with a "j" (Table 1). The detected concentration is lower than the Method B cleanup level (Table 1).

7.1.5 Conventional Parameters

Samples SS-1 and SS-2 were analyzed for the nitrate suite and total coliform. MTCA A cleanup levels have not been established for these parameters. The MTCA B cleanup level for nitrate and nitrite are not exceeded. No MTCA B cleanup level has been established for coliform. The total coliform count in sample SS-

1 was elevated at 238 CFU/g compared the non-detect result in SS-2 (Table 1).

7.1.6 PCBs/Pesticides/VOCs

Surficial soil samples collected at the WSDOT-Potlatch site as part of this investigation did not contain detectable concentrations of PCBs, Pesticides/PCBs, and VOCs (Table 1).

7.2 TEST PIT SOILS

Soil samples were collected from the floor of four test pits excavated at the WSDOT-Potlatch site. The HCID analysis was used as a screening tool during this investigation and NWTPH analysis of gasoline, diesel, and motor oil were only performed if results of the HCID indicated these parameters were present. The HCID analysis of the test pit soil samples indicated that hydrocarbons were not detectable (Table 1).

7.3 GROUNDWATER

Groundwater samples were collected from the WSDOT-Potlatch monitoring wells Skok-1 through Skok-5 (Figure 2) and were analyzed for a subset of the site contaminants of concern.

7.3.1 Petroleum Hydrocarbons

HCID was used as a screening tool to test for the presence of petroleum hydrocarbon compounds in groundwater samples Skok-1 through Skok-5. The results of the HCID analysis indicated that petroleum compounds are not present in the WSDOT-Potlatch groundwater samples. Therefore NWTPH analyses for individual petroleum products were not performed (Table 2).

7.3.2 Metals

Total and dissolved RCRA metals were analyzed in the groundwater samples. This discussion begins with total metals results. While some total metals concentrations exceed cleanup levels, the dissolved metals concentrations do not for all wells (Table 2).

The results of the total metals analyses indicate that arsenic was detected in samples Skok-3 and Skok-5 at concentrations of 7.6 micrograms per liter (ug/L) which is equivalent to parts per million and 0.6 ug/L respectively. The concentration in the Skok-3 sample exceeds the MTCA Method A cleanup level, 5 ug/L. Barium was detected in all groundwater samples collected under this scope of work and concentrations range from 1.6 ug/L in sample Skok-2 to 581 ug/L in sample Skok-3. A MTCA Method A cleanup level has not been established for barium, however the Method B cleanup level (560 ug/L) is exceeded in Skok-3 (Table 2). The WAC 173-200-040 criteria for barium is 1000 ug/L. Cadmium was detected in samples Skok-3 and Skok-5 at concentrations of 0.3 ug/L and 0.2 ug/L respectively. These concentrations do not exceed the MTCA Method A cleanup level for cadmium (5 ug/L) nor the WAC 173-200-040 criteria for cadmium (10 ug/L). Chromium was detected in all groundwater samples collected during this investigation and concentrations range from 0.7 ug/L in Skok-2 to 150 ug/L in Skok-3. The chromium concentration in Skok-3 exceeds the MTCA Method A cleanup level and WAC 173-200-040 criteria (50 ug/L). The MTCA A cleanup level is based on the hexavalent chromium. If only trivalent chromium is present, the MTCA A cleanup level is 100 ug/L (more likely at this site, but not analyzed). The concentrations of chromium in the remaining samples are below the cleanup level and criteria. Lead is present in the Skok-3 sample at 12 ug/L and the Skok-5 sample at 1 ug/L. These concentrations do not exceed the MTCA Method A cleanup level (15 ug/L) or the WAC 173-200-040 criteria (50 ug/L) for lead. Silver was detected in sample Skok-3 and the concentration, 0.3 ug/L, does not exceed the MTCA B cleanup level, 80 ug/L, or the WAC 173-200-040 criteria for silver, 50 ug/L. (A MTCA Method A cleanup level for silver has not been established.) The remaining RCRA metals, mercury and selenium, were not detected in WSDOT-Potlatch groundwater samples (Table 2).

Fewer dissolved RCRA metals were detected in the groundwater samples than total RCRA metals. Dissolved barium was detected in all groundwater samples collected for this investigation and concentrations range from 1 ug/L in Skok-3 to 5.9 ug/L in Skok-1. This concentration does not exceed the MTCA B cleanup level, 560 ug/L. Neither a groundwater cleanup level nor criteria for barium are established under MTCA Method A or WAC 173-200-040. The concentration of dissolved chromium in sample Skok-1, 0.9 ug/L, does not exceed the MTCA Method A cleanup level, 50 ug/L. The remaining RCRA metals were not detected as dissolved metals in the groundwater samples (Table 2).

7.3.3 Polyaromatic Hydrocarbons

PAH compounds were not detected in ground-water samples collected at the WSDOT-Potlatch site under this investigation (Table 2).

7.3.4 Conventional Parameters

Groundwater samples were analyzed for the nitrate suite, fecal coliform, and one sample was analyzed for total coliform. The concentrations of nitrate in the samples range from 0.08 mg-N/L in sample Skok-2 to 0.717 mg-N/L in sample Skok-1. These concentrations do not exceed the MTCA B cleanup level, 1600 ug/L, or the WAC 173-200-040 criteria for nitrate, 10 mg/L. Fecal coliform was not detected in the groundwater samples and total coliform was not detected in sample Skok-1. MTCA Method A cleanup levels are not established for the conventional parameters analyzed (Table 2).

7.3.5 PCBs/Pesticides/VOCs

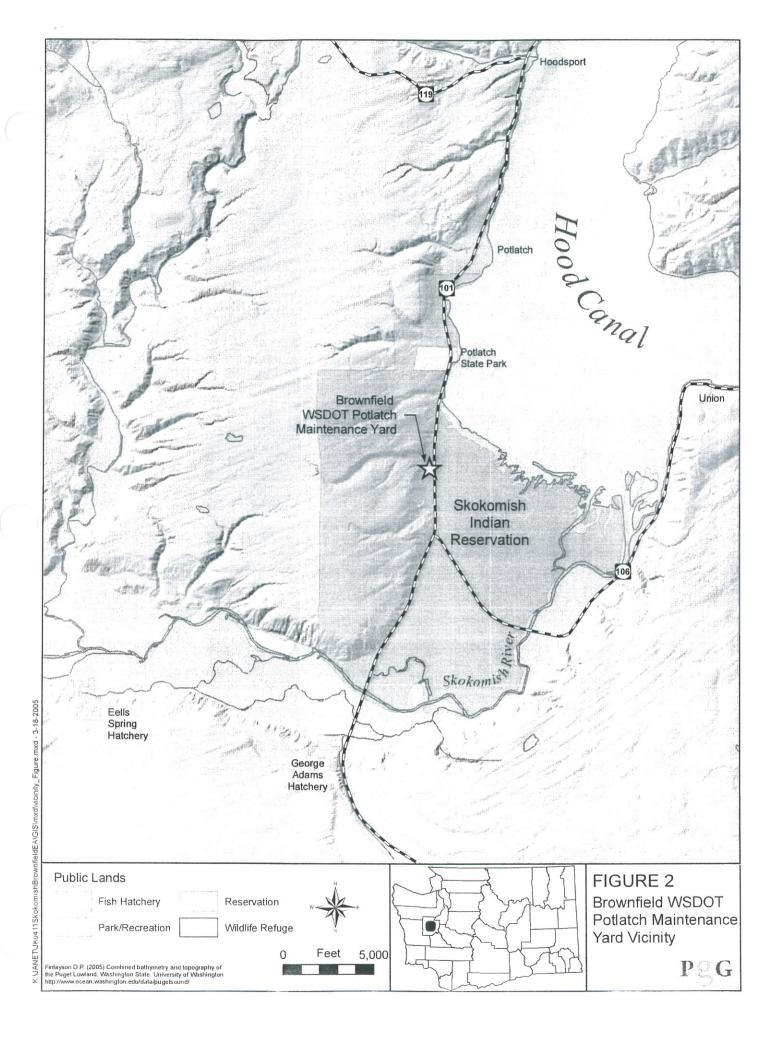
Groundwater samples collected at the WSDOT-Potlatch site as part of this investigation did not contain detectable concentrations of PCBs, Pesticides/PCBs, and VOCs (Table 2).

8.0 CONCLUSIONS

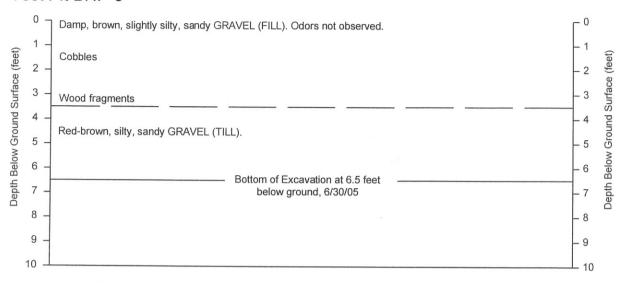
Based on the environmental assessment performed herein, including surface soil, test pit, and groundwater sampling, hazardous substances or contaminants have not be found at levels that exceed appropriate regulatory criteria. The analytical results do not indicate the need for further investigation or remedial action of soil or groundwater. The site is recommended for no further action and closure. Due to the close proximity of private wells located immediately east of the site and due to the detection of total (unfiltered) arsenic, barium, chromium, and lead in one well (Skok-3), the Skokomish Indian Tribe may consider sampling the private wells for metals only. Again, the analytical results do not show exceedances of filtered (dissolved) metals in Skok-3, and therefore no further action is indicated.

APPENDIX A
TEST PIT LOGS AND WELL CONSTRUCTION AS-BUILT LOG

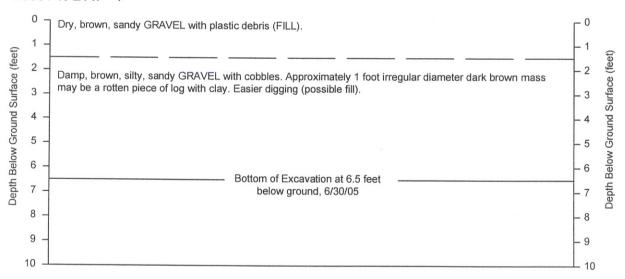
APPENDIX B
LABORATORY ANALYTICAL REPORTS



Test Pit BHP-3



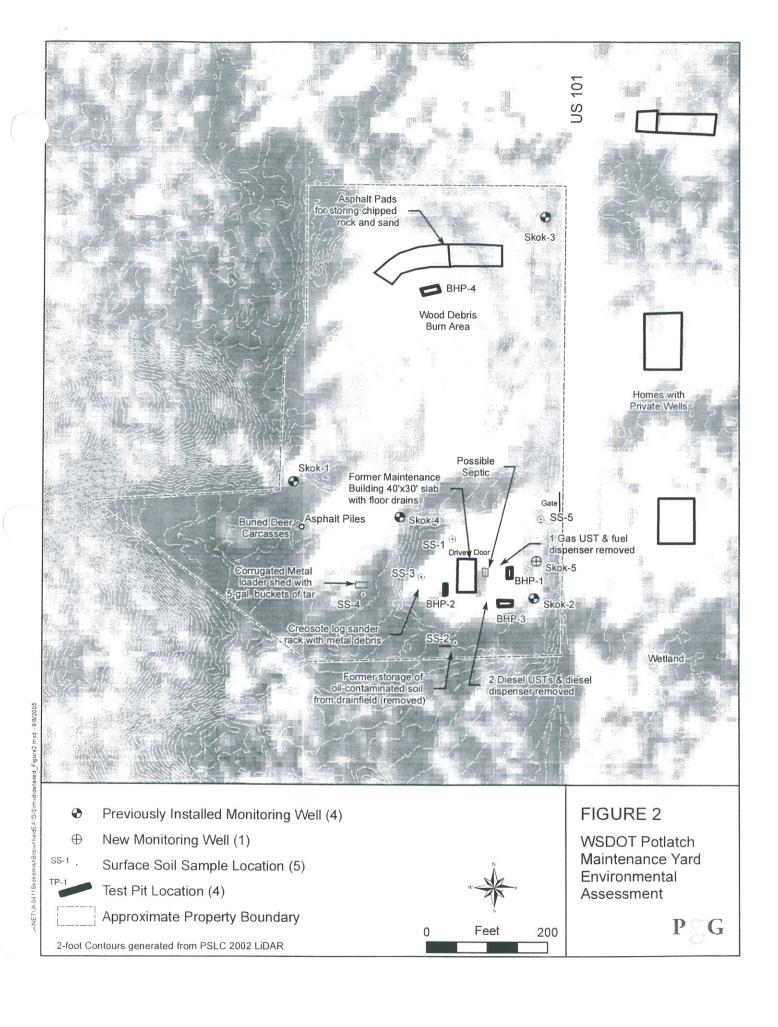
Test Pit BHP-4

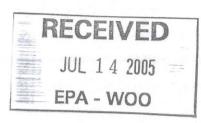


LEGEND

FIGURE A-2 WSDOT-Potlatch Test Pit Logs BHP-3 and BHP-4 Logs

 $P \subseteq G$





Brownfield's Quarterly Report #7 April 1 --- June 30, 2005

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V. TASK 5. IDENTIFY AND CLEANUP ALTERNITIVES	5

1. Modification of Work Plan:

There was no modification of work plan. The work is underway but as stated in the last report, Pacific Groundwater Group (PGG) alerted us that there could be a need for an extension for the project. PGG's proposed schedule anticipated they would be in the field by mid-March. Due to longer timeframes for Freedom of Information Act (FOIA) Requests (referenced in report #6 (01/01/05-03/31/05) and for review of the Quality Assurance Project Plan (QAPP) by the Tribe (due to several Tribal elders' passing), the project is approximately one to two months behind schedule. However, you will note in the attached schedule that PGG proposal showed the completion of the final report by the end of May. We understand that the Brownfields Grant states that the final report shall be due July 31, 2005. Therefore, the project may still be on track to meet that deadline. However, we note the delays for your consideration

In addition, to the problems mentioned above additional unforeseen delays have arisen on this project in the sampling implementation stage including, backhoe and driller problems, as well as delays due to incorrect project files being sent by Ecology, etc. PGG will make efforts to finish the work within budget by streamlining reporting and making full use of summary language produced for the QAPP. PGG will also work with the drillers to only charge per foot for the actual well installation.

If the project, however, approaches using full budget without finalizing the report, the Tribe will look to other funding sources and will cover unforeseen conditions. PGG will only charge for time actually spent on the Skokomish project and will make efforts to control costs.

¹ A proposed schedule (Table 1), which lists tasks for the project, is described below.

SCHEDULE

Table 1. WSDOT Potlatch Maintenance Yard Environmental Assessment Schedule of Work Pacific Groundwater Group Team

	2004		2005						
Tasks	November	December	January	February	March	April	May	June	July
Fask 1. Develop Project Understanding	Process of the Control of the Contro								T
Review Site History Documents	The second secon							1	T
Project Kick-off Meeting with Tribe									1
Revise Proposed Approach									1
ACCURACY Approacy									
Task 2. Develop QAPP									
Draft QAPP to EPA							1		
Final QAPP				-			-	-	-
Task 3. Soil Investigation									-
Test Pits									1
Surface Soil Samples		-						-	
		***			-				
ask 4. Groundwater Investigation									
Monitoring Well Installation				-	<u> </u>				
Monitoring Well Survey									
Groundwater Sampling				-			-		
ask 5. Report of Investigation									
Draft Report									
Final Report									
				ļ					
ask 6. Project Management		-		-					
Project Management				-					

This schedule is presented to depict the relative timing of tasks. PGG frequently completes similar investigations and reporting in a fraction of the time. Therefore, PGG can easily expedite the schedule or adjust based on the availability of the backhoe or other needs of the Tribe or USEPA.

2. Progress Report:

TASK 1. PROJECT PLANNING, IMPLEMENTATION, AND MANAGEMENT

This task according to our Work Plan (10/06/04) includes all activities that are required to establish planning priorities, implementation and project support activities, as well as all grant tracking, reporting, and other management components of the cooperative agreement. Specific activities include:

- 1. Project management and coordination
- 2. Financial tracking
- 3. Facilitation of public meetings
- 4. Quarterly & final report creation

Project management and coordination:

Meetings where held between Tribal staff to continue to have oversight on the project management and coordination activities included project planning. Staff included:

Ron Figlar-Barnes (Natural Resources Planner) Keith Dublanica (Natural Resources Director) Ed Binder (Senior Tribal Planner)

The project management and coordination of the grant included,

- Communication between EPA and the Tribe regarding task completion.
- Finalization of the Quality Assurance Project Plan provided by the Pacific Groundwater Group.
- Site visits by PPG consultants.
- Site Preparation.
- Collection of Samples.

Pacific Groundwater Group Work Report as of June 30, 2005:

The tasks performed this reporting period included:

PPG has installed an additional well and performed soil sampling throughout the site in accordance with the approved QAPP. Groundwater sampling will be performed the first week in July. PPG expect analytical results within two weeks of final sampling and will proceed with reporting.

Financial Tracking: EPA Grants and Project Coordinator

	W325 - WSDOT Brownfields	
	For Quarter 04/1/05 - 06/30/05	
Account Code	Account Title	Quarter Actual
6000	Salaries & Wages	2,076.90
6120	Employer's FICA	155.35
6140	Workers' Comp/L&I Insurance	115.15
6150	State Unemployment	37.40
6210	Medical Insurance	161.24
6220	Dental Insurance	14.98
6230	Life Insurance	4.85
6260	LT Disability Insurance	5.76
7030	Contracted Services	8,521.20
7110	Program Supplies	0.00
7530	Equipment Rental or Lease	2,500.00
7555	Computer Hardware	0.00
7810	Mileage/Parking & Tolls	0.00
7840	Lodging & Per-diem	0.00
7870	Conference Fees & Registration	0.00
9060	Advertising	0.00
	Total W325 - WSDOT Brownfields	\$13,592.83

Facilitation of Public Meeting:

No public meeting during this phase of the project

TASK 2. HISTORIC/BACKGROUND INFORMATION SEARCH

Done

TASK 3 HYDROLOGICAL, GEOLOGICAL, AND BIOLOGICAL STUDY

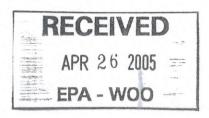
Soil testing underway

TASK 4 DATA ANALYSIS AND EVALUATION OF RISK

Soil testing underway

TASK 5 IDENTIFY CLEAN-UP ALTERNATIVES AND REPORT FINDINGS

Not Due.



Brownfield's Quarterly Report #6 January 1 --- March 31, 2005

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1. Modification of Work Plan:

There was no modification of work plan. However, Pacific Groundwater Group (PGG) has alerted us that there could be a need for an extension for the project. A proposed schedule (Table 1), which lists tasks for the project, is described below. PGG's proposed schedule anticipated they would be in the field by mid-March. Due to longer timeframes for Freedom of Information Act (FOIA) Requests (detailed below) and for review of the Quality Assurance Project Plan (QAPP) by the Tribe (due to several Tribal elders' passing), the project is approximately one to two months behind schedule. However, you will note in the attached schedule that PGG proposal showed the completion of the final report by the end of May. We understand that the Brownfields Grant states that the final report shall be due July 31, 2005. Therefore, the project may still be on track to meet that deadline. However, we note the delays for your consideration

SCHEDULE

Table 1. WSDOT Potlatch Maintenance Yard Environmental Assessment Schedule of Work Pacific Groundwater Group Team

ask 1. Develop Project Understanding Review Site History Documents Project Kick-off Meeting with Tribe Revise Proposed Approach ask 2. Develop QAPP Draft QAPP to EPA Final QAPP	November	December	January	February	March	April	May	June	July
ask 1. Develop Project Understanding Review Site History Documents Project Kick-off Meeting with Tribe Revise Proposed Approach ask 2. Develop QAPP Draft QAPP to EPA									
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ask 2. Develop QAPP Draft QAPP to EPA									
Draft QAPP to EPA									
Draft QAPP to EPA						1			
					-				
						-		-	-
ask 3. Soil Investigation									
Test Pits									
Surface Soil Samples				-					
ask 4. Groundwater Investigation									
Monitoring Well Installation									
Monitoring Well Survey									
Groundwater Sampling	-						 		-
ask 5. Report of Investigation									
Draft Report									
Final Report				-					-
ask 6. Project Management									
Project Management									
- I - I - I - I - I - I - I - I - I - I									-

This schedule is presented to depict the relative timing of tasks. PGG frequently completes similar investigations and reporting in a fraction of the time. Therefore, PGG can easily expedite the schedule or adjust based on the availability of the backhoe or other needs of the Tribe or USEPA.

2. Progress Report:

TASK 1. PROJECT PLANNING, IMPLEMENTATION, AND MANAGEMENT

This task according to our Work Plan (10/06/04) includes all activities that are required to establish planning priorities, implementation and project support activities, as well as all grant tracking, reporting, and other management components of the cooperative agreement. Specific activities include;

- 1. Project management and coordination
- 2. Financial tracking
- 3. Facilitation of public meetings
- 4. Quarterly & final report creation

Project management and coordination:

Meetings where held between Tribal staff to continue to have oversight on the project management and coordination activities included project planning. Staff included:

Ron Figlar-Barnes (Natural Resources Planner) Keith Dublanica (Natural Resources Director) Ed Binder (Senior Tribal Planner)

The project management and coordination of the grant included,

- Communication between EPA and the Tribe regarding task completion.
- Review of a Draft Quality Assurance Project Plan provided by the Pacific Groundwater Group.
- Site visits by PPG consultants.
- Development of scoping of site by PPG and staff.

Pacific Groundwater Group Work Report as of March 31, 2005:

The tasks performed this reporting period included:

1. Develop Project Understanding

PGG submitted FOIA Requests to the Washington Department of Ecology and U.S. Environmental Protection Agency. We also contacted individuals at WSDOT who had been involved in the operation and cleanup of the site. We received reports from WSDOT and Ecology and found that EPA had no additional information about the environmental history of the site. The FOIA request process took a little more time than was expected, in part due to the many departments at EPA who were contacted by FOIA personnel and in part because Ecology confused the site with another WSDOT Maintenance Yard in Shelton.

PGG held our project kick-off meeting with Keith Dublanica of the Skokomish Tribe on Monday, February 7, 2005. In attendance from PGG were project manager Janet Knox and

assistant project manager Inger Jackson. We performed a site reconnaissance initially with Keith, scoping the fieldwork and proposing the locations for test pits and surface soil samples. We located all four existing wells and measured their depths to water, as well as their total depths. The integrity of the wells appears intact. In review of the well logs, PGG finds the wells sound and acceptable for sampling at the site. Therefore, the scope of work has been revised to install only one additional well. We have finalized our approach based on the FOIA information and site visit.

2. Develop QAPP

PGG developed our Quality Assurance Project Plan (QAPP) in general accordance with EPA guidance and requirements EPA/QA G-5 and EPA/QA R-5. We submitted the DRAFT QAPP to Keith Dublanica for review. We also called Deborah Burgess, USEPA Brownfields Project Manager, and left a voicemail that the QAPP was in client review and we hoped to respond to client comments and forward the DRAFT QAPP for EPA's review (see Attached Draft). The review by the Skokomish Tribe is in progress.

Financial Tracking: EPA Grants and Project Coordinator

	<i>W325 - WSDOT Brownfields For Quarter 01/1/05 - 03/31/05</i>			
Account Code	Account Title	YTD Actual		
6000	Salaries & Wages	14,523.0		
6120	Employer's FICA	1,111.1		
6140	Workers' Comp/L&I Insurance	31.9		
6150	State Unemployment	261.4		
6210	Medical Insurance	1494.4		
6220	Dental Insurance	166.7		
6230	33.9			
6260 LT Disability Insurance		31.2		
7030	Contracted Services	5,372.0		
7110	Program Supplies	1,092.3		
7530	Equipment Rental or Lease	980.0		
7555	Computer Hardware	93.9		
7810 Mileage/Parking & Tolls		374.0		
7840	Lodging & Per-diem	160.4		
7870	Conference Fees & Registration	130.0		
9060	Advertising			
	Total W325 - WSDOT Brownfields	\$25,945.75		

Facilitation of Public Meeting:

No public meeting during this phase of the project

TASK 2. HISTORIC/BACKGROUND INFORMATION SEARCH

Please see Task 1 (Pacific Groundwater Group Work Report as of March 31st 2005)

TASK 3 HYDROLOGICAL, GEOLOGICAL, AND BIOLOGICAL STUDY

None

TASK 4 DATA ANALYSIS AND EVALUATION OF RISK

Not Due.

TASK 5 IDENTIFY CLEAN-UP ALTERNATIVES AND REPORT FINDINGS

Not Due.

Attachments: —Contract with Pacific Groundwater Group



Skokomish Natural Resources

Telephone: (360) 877-5213 Fax: (360) 877-5148

N.541 Tribal Center Road

Skokomish Nation, WA 98584

January 5, 2005

Deborah Burgess EPA – Brownfields Program Tribal Operations Office Desmond Lane Olympia. WA 98501 JAN 05 2005 EPA - WOO

RE: Skokomish Indian Tribe's Brownfields Project

Dear Ms. Burgess:

On behalf of the Skokomish Indian Nation, and its Natural Resources Department, I respectfully request your attention to the above-referenced issue. The Tribe has implemented an EPA –funded Brownfields assessment of the former WSDOT maintenance facility located within the Skokomish Indian Reservation boundaries.

The Tribe has contracted with the Pacific Groundwater Group in providing attention to the elements identified in an attached scope of work. A copy of the subsequent legal contract for performance and deliverables between the contractor and the Tribe is included as well. The Tribe is confident this vendor, with a strong analytical background, expertise and local knowledge, will satisfy the contract terms and conditions. The Tribe expects the vendor to provide recommendations as necessary, appropriate and mandated.

Thank you for your consideration in the above matter. Please do not hesitate to contact me if you have questions or concerns.

Sincerely,

Keith Dublanica, Director

Skokomish Natural Resources Department

cc:

Celeste Vigil, Grants Compliance Ron Figlar-Barnes, Natural Resource Planner Janet Knox, Pacific Groundwater Group



Skokomish Indian Tribe

N. 80 Tribal Center Road

Tribal Center (360) 426-4232 FAX: (360) 877-5943

Shelton, WA 9858

CONTRACT FOR SERVICES

This Agreement is made by and between the SKOKOMISH INDIAN TRIBE (hereinafter TRIBE), a federally recognized Indian Tribe located on the Skokomish Indian Reservation in Mason County, Washington (hereinafter Reservation), and PACIFIC GROUNDWATER GROUP (hereinafter VENDOR), for services set forth herein.

PURPOSE

The intent and the purpose of this agreement between the TRIBE and the VENDOR is:

to conduct an environmental assessment, utilizing EPA Brownfield support and criteria, of the former Washington State Department of Transportation Maintenance Facility property on US Highway 101 on the Skokomish Reservation. The objectives of this project are to investigate the potential presence of hazardous substances, or contaminants in soil or groundwater.

AGREEMENTS

NOW THEREFORE, in consideration of the mutual covenants contained herein, and other good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, it is mutually agreed and understood by the parties that:

- TERM OF AGREEMENT: Subject to the terms and conditions contained in this Agreement, VENDOR and the TRIBE agree that the term of this Agreement shall commence December 17th 2004 and shall extend to July 30, 2005...
- TRIBAL CONTRACT REPRESENTATIVE: All written and verbal communication by VENDOR to the TRIBE under this Agreement shall be through Larry Goodrow, Skokomish Tribal Manager, or his designee, such designee to be by signed writing.
 - SERVICES TO BE PERFORMED BY VENDOR: VENDOR hereby agrees to perform the following services for the TRIBE:

VENDOR shall perform services as set forth in the attached Proposal To Provide Environmental Assessment Of The WSDOT Potlatch Maintenance Yard, which is hereby incorporated into this Contract for Services. In summary, these services include:

Task 1. Develop Detailed Project Understanding

- Fask 3. Soil Investigation
- Task 4. Groundwater Investigation
- Task 5. Reporting
- Task 6. Project Management
- TIMETABLE FOR PERFORMANCE OF SERVICES: as set forth in the attached WSDOT Potlatch Maintenance Yard Environmental Assessment Schedule of Work, which is hereby incorporated into the Contract for Services.
- TIME IS OF THE ESSENCE: Time is of the essence for performance of services under this Agreement.

6. PAYMENTS:

In consideration for the performance of all services listed in Section 3 of this Agreement by the VENDOR, the TRIBE agrees to pay VENDOR: A total fee of forty-four thousand eight hundred eighty-three dollars (\$ 44,883.00) as set forth in the attached Cost Estimate for WSDOT Potlatch Maintenance Yard Environmental Assessment, which is hereby incorporated into this Contract for Services, and in accordance with the attached 2004 Pacific Groundwater Group Terms and Conditions, which is hereby incorporated into this Contract for Services. Reimbursable expenses under the Terms and Conditions shall not exceed \$500.00, the invoices for which shall be accompanied by corroborating documentation (copies of travel receipts, copies of long distance phone bills, postage receipts, etc.)

- 7. WITHHOLDINGS: Under this Agreement and during the time of performance, the VENDOR is acting as an independent contractor for all purposes, including any employment insurance and tax liability. The TRIBE will not deduct federal withholding tax, social security insurance or any other payroll taxes, charges, or assessments from the agreed VENDOR fees. The TRIBE will not provide social security, labor and industries insurance, unemployment insurance, or any other insurance or benefit to the VENDOR except as specifically required by federal or tribal law.
- 8. VENDOR NOT TO ASSIGN CONTRACT: VENDOR agrees that s/he will not assign, transfer, convey, pledge, or encumber this Agreement or his/her right, title, or interest therein, or his/her power to execute same, or any monies due or to grow due hereunder, without the consent in writing of the TRIBE, this Agreement being intended to secure the personal services of the VENDOR.
- 9. NO WAIVER OF SOVEREIGN IMMUNITY: The TRIBE expressly reserves all of its inherent sovereign rights as a federally recognized Indian tribe, including sovereign immunity from suit in any state, federal or tribal court without the TRIBE'S express consent. By entering into this Agreement, the TRIBE does not waive its sovereign immunity from suit and nothing in this Agreement shall be construed to imply such a waiver.
- 10. TERMINATION: This Agreement may be terminated as follows:

- A. By the TRIBE upon written notice to the VENDOR three (3) days prior to the commencement of performance by either party.
- B. By either party for cause, including but not limited to impossibility, frustration of purpose, waiver, expiration of the applicable limitations period, breach or nonperformance.
- Upon the mutual written consent of the VENDOR and the TRIBE.
- 11. NOTICE: Any notice, demand or other communication required to be given or delivered pursuant to this Agreement shall be in writing and shall be deemed to have been given either when personally delivered or sent by telecopy with hard copy to follow or overnight express courier or three days following mailing by registered or certified mail, postage prepaid, return receipt requested.
- 12. INTEGRATION: There are no other written or oral agreements, representations, or understandings of any kind. This Agreement constitutes the final and complete agreement of the parties.
- MODIFICATION: This Agreement may not be amended or modified except in a writing signed by both parties.
- 14. COURT AND APPLICABLE LAW: Any litigation necessary to enforce the obligations of either party under this Agreement must be brought in the Tribal Court of the Skokomish Indian Tribe to the extent jurisdiction obtains. Both as to interpretation and performance, this Agreement shall be governed by the tribal law of the Skokomish Indian Tribe; in the absence of applicable tribal law, federal law; and in the absence of applicable federal law, state law. This provision does not constitute a waiver of the Tribe's sovereign immunity.
- 15. CONSENT TO JURISDICTION OF TRIBE: VENDOR acknowledges and agrees that:
 - A. Any person who resides within the jurisdiction of the Skokomish Tribe; conducts business or engages in a business transaction with the Skokomish Tribe or in Indian Country; receives benefits from the Skokomish Tribal government, including police, fire or emergency services; acts under Skokomish Tribal authority, or enters Indian Country shall be deemed thereby to have consented to the following:
 - To be bound by the laws of the Skokomish Indian Tribe, including but not limited to the Tribe's codes and ordinances;
 - To the exercise of civil jurisdiction by the Skokomish Tribal Court over said person; and
 - To detainment, service of summons and process, and search and seizure, in conjunction with legal actions arising pursuant to Skokomish Tribal Law.
 - B. "Indian country," consistent with the meaning given in 18 United States Code (U.S.C.) section 1151, includes:
 - All land within the limits of the Skokomish Reservation under the jurisdiction of the United States government, notwithstanding the issuance of any patent, and

including rights of way running through the reservation.

- All lands placed in trust or restricted status for individual member Indians or for ii. the Tribe, and such other lands as may hereafter be added thereto under any law of the United States, except as otherwise provided by law.
- All Indian allotments or other lands held in trust for a tribal member or the Tribe, iii. the Indian titles to which have not been extinguished, including rights of way running through the same.

15 SEVERABILITY: If any provision invalidity or unenforceability shall not a this Agreement.	of this Agreement is held invalid or unenforceable, such affect the validity or enforceability of any other provision o
The parties hereto execute this Agreement:	
PACIFIC GROUNDWATER GROUP	SKOKOMISH INDIAN TRIBE
Janet Knox	Larry Goodrow, Skokomish Tribal Manager
12-20-04 Date	12-15-04 Date
Pacific Groundwater Group 2377 Eastlake Avenue East, Suite 200 Seattle, Washington 98102	Approved as to Form:
206.329.0141 www.pgwg.com	Marilan Relent
91-1385271	Marilou Rickert, Skokomish Tribal Attorney
EIN/SSN	12/14/04 Date

BROWNFIELD WSDOT POTLATCH MAINTENANCE YARD ENVIRONMENTAL ASSESSMENT DRAFT QUALITY ASSURANCE PROJECT PLAN

March 21, 2005

BROWNFIELD WSDOT POTLATCH MAINTENANCE YARD ENVIRONMENTAL ASSESSMENT DRAFT QUALITY ASSURANCE PROJECT PLAN

Prepared for:

Skokomish Indian Tribe North 80 Tribal Center Road Shelton, Washington 98584 360.426.4232 www.skokomish.org

Prepared by:

Pacific Groundwater Group 2377 Eastlake Avenue East, Suite 200 Seattle, Washington 98102 206.329.0141 www.pgwg.com

> March 21, 2005 JK0411 Draft QAPP.doc

APPROVAL SIGNATURES

The following signatures acknowledge that these team members have read, fully understood, and are willing to adhere to this Sampling and Quality Assurance Plan for the Birds Eye NPDES Receiving Water Study.

Debough Dynasas	Data	
Deborah Burgess U.S. Environmental Protection Agency	Date	
Place holder for title		
Brownfields Project Manager		
Keith Dublanica	Date	
Skokomish Indian Tribe		
Natural Resources Director		
Invest V. and	Dete	
Janet Knox	Date	
Pacific Groundwater Group Project Manager		
Tioject Manager		
To con Toolson	Dete	
Inger Jackson	Date	
Pacific Groundwater Group Field Manager		
Fleid Mallagei		
Linton Wildrick	Date	
Pacific Groundwater Group		
Field Analysis Lead		

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Table 1: Summary of Analyses per Sample

Table 2: Monitoring Well Construction Summary

Table 3: Analyte and Soil Sample Container Summary

FIGURES

Figure 1: Brownfield WSDOT Potlatch Maintenance Yard Vicinity

Figure 2: WSDOT Potlatch Maintenance Yard Environmental Assessment

APPENDICES

Appendix A: Quality Assurance Manual Friedman & Bruya, Inc.

Appendix B: U.S. EPA Method 5035A Analysis

VI.PROJECT MANAGEMENT

The following project management elements address the procedural aspects of the project, summarize the project team, and summarize the project.

A. DISTRIBUTION LIST

The following individuals will receive copies of the Draft QAPP and any subsequent revisions.

- Deborah Burgess, place holder for title, U.S. Environmental Protection Agency, 360-753-9079
- Keith Dublanica, Natural Resources Director, Skokomish Indian Tribe, (360) 877-5213 x507
- Janet Knox, Project Manager, Pacific Groundwater Group, 206-329-0141
- Inger Jackson, Assistant Project Manager and Field Manager, Pacific Groundwater Group, 206-329-0141
- Linton Wildrick, Field Analysis Lead, Pacific Groundwater Group, 360-570-8244

B. PROJECT ORGANIZATION

The project team is formed by members of the Environmental Protection Agency (EPA), the Skokomish Indian Tribe, Pacific Groundwater Group (PGG), Friedman & Bruya Inc. (F&BI), Geotechnical Testing Laboratory, and Agate Land Surveying. The project organization is summarized below and in Figure 1.

The EPA is the lead agency for this Skokomish project. Deborah Burgess is the Brownfields Project Manager for EPA Region 10 and will act as EPA project manager and regulator.

The project site is owned by the Skokomish Indian Tribe and is within the boundaries of their reservation. Keith Dublanica will act as the representative of the members of the Tribe. Mr. Dublanica will make arrangements for access. In

addition, the Tribe will provide a backhoe and operator for the soil investigation (Section 1.4.2).

The prime consultant for this study is PGG who will be responsible for field activities, data collection, data management, and reporting to the EPA and Tribe. The key PGG staff who will be involved in the project are:

- Janet Knox, LG; QA Manager
- Inger Jackson, LG, LHG; Field Manager
- Linton Wildrick, LG, LHG; Field Analysis Lead
- Dawn Chapel; Field and Analysis Support
- Tad Cline, PE, LG, LHG; Field and Analysis Support/Remedial Engineering Design
- Wayne Rennick; GIS Specialist

PGG will subcontract analytical, drilling, and surveying tasks. F&BI will provide analytical services and Eric Young will be the point of contact. Geotechnical Testing Laboratory will provide drilling services and Hal Parks will be the drilling co-coordinator. Following well installation, Bill Winder will be contacted at Agate Land Surveying to complete the surveying tasks.

C. BACKGROUND & PROBLEM DEFINITION

The Washington State Department of Transportation (WSDOT) formerly operated a maintenance yard near Potlatch, Washington within the boundaries of the Skokomish Indian Reservation. Specifically, the site is located on the west side of State Route 101 at milepost 336.2 (Figure 1) and is herein referred to as the WSDOT-Potlatch site.

WSDOT used the 14-acre parcel to store road maintenance equipment and road debris from approximately the 1950s through recent years. The site was also used as a gravel pit. In 1999 WSDOT transported wet soil and debris from

two large landslides along Highway 101 to the site and distributed the spoils over most of the area previously excavated for gravel. The debris is in the northern portion of the site and is at least 12-feet thick in most places.

The property ownership was transferred to the Skokomish Tribal Nation. Because of historical use of the site, it is considered a "Brownfield site," meaning the redevelopment or reuse of the property may be complicated by the presence or potential presence of a hazardous substance, pollutant, or contaminant. The site is underutilized in its current condition.

The Skokomish Tribe wishes to make reasonable and best use of this property which may be development of a wastewater treatment facility.

The Tribe intends to perform an environmental assessment of the WSDOT-Potlatch site. The objectives of the project are to investigate the potential presence of hazardous substances, or contaminants, in soil and groundwater.

1. Previous Investigations and Studies

Previous work at the WSDOT-Potlatch site includes an Underground Storage Tank Site Assessment and Closure and a preliminary Hydrogeologic Study and Groundwater Mounding Analysis.

CEcon Corporation of Tacoma, Washington, were contracted to remove two 1,000 gallon diesel underground storage tanks (USTs) and one 500 gallon unleaded gasoline UST from the WSDOT-Potlatch site. The tanks were removed on April 20, 1995 according to applicable regulations, as we understand. The three tanks had extensive corrosion but no holes were visible. In addition to the UST removal, a gas house was demolished and fuel dispensers were removed. Soil samples were taken from the excavations to assess possible residual contamination. The samples were analyzed for the respective petroleum compound most likely to be in the sample based on the type of the fuel UST and/or type of fuel dispenser. The analytical results indicated the concentrations of gasoline, diesel, BTEX, and lead in the soil samples were below Ecology's Model Toxics Control Act (MTCA) Method A cleanup levels. The excavations were backfilled with pit run.

A preliminary hydrogeologic study conducted at the WSDOT-Potlatch between June 1999 and May 2000 to evaluate the suitability of the site for rapid infiltration of treated municipal effluent. Four groundwater monitoring wells were installed at the site during this study that were monitored for water level and water quality. Test pits and percolation tests were included in the field study. A modeling analysis was also performed to estimate the mounding potential of the aquifer.

The hydrogeologic study indicates the unsaturated zone at the site is 15 – 28 feet thick and groundwater levels vary seasonally by 1 – 4 feet. Coarse, outwash material was identified at the center of the site that is highly permeable. Landfill debris soil imported to the northern portion of the site has low permeability. Another low permeability zone was identified in the south-west portion of the site.

D. TASK DESCRIPTION SUMMARY

The Skokomish project at the WSDOT-Potlatch site will include soil and groundwater investigations. These tasks will be summarized in the following section and further detail is provided in Section 2.

1. Contaminants of Concern

Based on site history it appears that contaminants of concern include:

- Petroleum (gasoline, benzene, ethylbenzene, toluene, and xylenes (BETX); diesel; and oil)
- Metals

- Polyaromatic hydrocarbons (PAHs) from petroleum or creosote sources
- Pentachlorophenol, a wood preservative
- Possibly limited pesticides
- Possibly PCBs

2. Soil Investigation

The soil investigation involves collecting samples of surficial soil and soil within approximately 10 feet of ground surface for analysis of suspected contaminants of concern.

Shallow surface soil samples will be collected in areas where use of hazardous substances is known or suspected. The shallow soil samples will be collected by hand using stainless steel spoons and/or trowels and laboratory provided jars. The surface soil sample analyses are presented in Table 1 and are listed below:

- Hydrocarbon identification (HCID) and gasoline, diesel-extended, or BETX, 1,2-Dibromoethane, 1,2-Dichloroethane, Methyl Tertiary-butyl ether, Naphthalenes as indicated by the HCID results (5 samples)
- PAHs, PCBs, pesticides, and metals (4 samples)
- Pentachlorophenol (1 sample)

Soil within approximately 10 feet of ground surface will be characterized and sampled with the use of backhoe-dug test pits. The Tribe will provide a backhoe and operator for this task. The test pit soil sample analyses are presented in Table 1 and are listed below:

 HCID and gasoline, diesel-extended, or BETX, 1,2-Dibromoethane, 1,2-Dichloroethane, Methyl Tertiary-butyl ether, Naphthalenes as indicated by the HCID results

Soil samples will be collected by representatives of PGG. The samples will be described and classified and field observations of contamination such as odor or staining will be noted.

3. Groundwater Investigation

Four groundwater monitoring wells installed during previous investigations are present at the WSDOT-Potlatch site. An additional one monitoring well will be installed under this scope of work.

Drilling will be accomplished using a hollow stem auger rig to advance 8-inch diameter augers through unconsolidated sediments (predominantly sand, gravel, and cobbles are anticipated) to approximately 60-feet below ground surface. The augers will be pressure washed before each use.

Soil samples will be collected using an 18-inch long split spoon at 5 foot intervals. During drilling, observations will be recorded of subsurface stratigraphy, soil characteristics of split spoon samples, evidence of contamination, blow counts for split spoon penetration, and pertinent driller's comments. Soil samples collected during drilling that show evidence of contamination will be sampled for possible laboratory analysis.

After reaching total depth, monitoring wells will be installed in each borehole. The wells will be constructed with 2-inch diameter PVC casing and commercially slotted screen. Backfill materials for the monitoring wells will include Colorado silica sand around the screen and bentonite chips to land surface. Wells will be installed in accordance with WAC 173-160.

The new monitoring wells will be protected by 8-inch diameter protected by 8-inch diameter, above-ground, steel, lockable monuments. Each monument will be set in concrete surface pads and protected with three guard posts or bollards.

Groundwater samples will be collected from the five on-site monitoring wells in one sampling round. The groundwater sample analyses are presented in Table 1 and are listed below:

- HCID and gasoline, diesel-extended, and/or BETX, 1,2-Dibromoethane, 1,2-Dichloroethane, Methyl Tertiary-butyl ether, Naphthalenes as indicated by the HCID results (6 wells).
- PAHs, PCBs, pesticides, metals, volatile organic compounds, nitrates, and coliform (4 wells).

Following well construction, the locations and measuring points of the wells will be surveyed.

E. DATA QUALITY OBJECTIVES

Quality assurance objectives for measurement data are usually expressed in terms of accuracy and precision. The data will be evaluated using the parameters discussed below.

Definitions of these characteristics are as follows:

Accuracy. A sample spike is prepared by adding a known amount of a pure compound to the environmental sample (before extraction for extractables), and the compound is the same or similar (as in isotopically labeled compounds) as that being assayed for in the environmental sample. These spikes simulate the background and interferences found in the actual samples and calculated percent recovery of the spike is taken as a measure of the accuracy of the total analytical method. When there is no change in volume due to the spike, percent recovery is calculated as follows:

$$PR = \frac{\left(O - X\right) \times 100}{T}$$

Where:

PR = percent recovery

O = measured value of analyte concentration after addition of spike

X = measured value of analyte concentration in the sample before the spike is added

T = value of the spike

Tolerance limits for acceptable percent recovery established by the lab in accordance with CLP guidelines will be followed for this project. Sample spike recoveries that fall outside the tolerance limits must be assessed and the problem identified and corrected. The result for that analyte in the unspiked sample is suspect and may not be reported for regulatory compliance purposes.

Surrogate spikes are also a measure of accuracy. When surrogate recoveries are outside the control limits established in the SW-846 methods, the corrective action procedures specified in the methods must be followed by the laboratory.

Precision. Aliquots are made in the laboratory of the same sample and each aliquot is treated exactly the same throughout the analytical method. The percent difference between the values of the duplicates, as calculated below, is taken as a measure of the precision of the analytical method.

$$RPD = \frac{2(D_1 - D_2) \times 100}{(D_1 + D_2)}$$

Where:

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RPD = relative percent difference

 D_1 = first sample value

 D_2 = second (duplicated) sample value

The tolerance limit for percent differences between laboratory duplicates will be \pm 20 percent. If the precision values are outside this limit, the laboratory should recheck the calculations and/or identify the problem. Reanalysis may be required. Sample results associated with the out-of-control precision results may be qualified at the time of validation.

1. Measurement Performance Criteria

The field and laboratory quality control samples are described in Section 2.5 and 2.6.

The target tolerance limits established by the lab in accordance with USEPA Contract Laboratory Program National Functional Guidelines (CLP Guidelines) will be followed for this project. The limits are summarized below and are presented and discussed in Appendix A.

Field Quality Control

Field quality control samples will be collected during the groundwater investigation. They will not be collected during the soil investigation because of the inherent heterogeneity in natural soil. The field quality control samples consist of a water field blank and a water field duplicate (Section 2.5). The goal is to have no detectable contaminants in the field blank. If contamination is detected, the nature of the interference and the effect on the analysis of each sample in the batch will be evaluated. Data from affected samples may require qualification as "estimated" or "rejected."

Field duplicate samples indicate both field and lab precision. Therefore, the results may have more variability than laboratory replicates which measure only lab performance. The tolerance limit for relative percent differences between the field duplicates will be \pm 35 percent.

Laboratory Quality Control

Laboratory quality control samples for soil and water will be method blanks, laboratory control samples (LCS), matrix spikes, and matrix duplicates.

The goal is to have no detectable contaminants in the method blank. If contamination is detected in the method blank sample, the nature of the interference and the effect on the analysis of each sample in the batch will be evaluated. The source of contamination will be investigated and measures taken to minimize or eliminate the problem. Affected samples are reprocessed or data is appropriately qualified following CLP Guidelines.

LCS results are calculated in percent recovery. Results are compared to established acceptance criteria. A LCS that is within the criteria effectively establishes that the analytical system is in control and validates system performance for the samples in the associated batch. If a LCS result is found to be outside the criteria, this indicates that the analytical system is "out of control." Any affected samples associated with an out of control LCS are reprocessed and re-analyzed (if possible), or the results reported with appropriate data qualifying codes. The acceptance criteria for LCS analysis vary between analytical methods and are presented in Appendix A (see F&BI Quality Assurance Manual Appendix E).

The results from matrix spike analyses are expressed as percent recovery (%R) and relative percent difference (RPD). Results are compared to the established acceptance criteria. If the results are outside the criteria, the cause is investigated and corrective actions are taken if necessary, or the matrix spike data is reported with appropriate qualifiers. The acceptance criteria for matrix spike analysis vary between analytical methods and are presented in Appendix A (see F&BI Quality Assurance Manual Appendix E).

The results from matrix duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Results are compared to established acceptance criteria. If results are outside the criteria, the cause is investigated and corrective actions are taken if necessary, or the matrix duplicate data is reported with appropriate qualifiers. The acceptance criteria for matrix duplicate analysis vary between analytical methods and are presented in Appendix A (see F&BI Quality Assurance Manual Appendix E).

F. TRAINING AND CERTIFICATION

Borehole drilling and monitoring well installation/construction will be performed by a Washington State licensed well operator.

Laboratory services must be performed by labs accredited by the Washington Sate Department of Ecology.

G. DOCUMENTS AND RECORDS

PGG will be responsible for distributing all versions of the QAPP to the individuals referenced on the distribution list (Section 1.1).

In addition, PGG will distribute draft and final versions of the Environmental Assessment report to Ms. Deborah Burgess, EPA, and Mr. Keith Dublanica, Skokomish Indian Tribe. These individuals will be responsible for distributing the report throughout their organization as necessary.

VII. DATA GENERATION AND ACQUISITION

This environmental assessment at the WSDOT-Potlatch site involves collection of soil and groundwater samples for laboratory analysis. Previous analytical data is limited to removal of underground storage tanks previously located at the site. The previous analytical data has been considered in selecting sampling locations, but will not be included in this environmental assessment.

A. SAMPLING PROCESS DESIGN

The Skokomish project at the WSDOT-Potlatch site will include soil and groundwater investigations.

1. Soil Investigation

The soil investigation will target two different depths: surficial soil and soil at approximately 10 feet below ground surface.

Surface soil samples will be collected from five different locations. The objective of the surface soil sampling is to investigate possible "hot spots." The sampling design for the surface soil samples is judgmental with locations based on site historic practices, as well as field observations.

Surface soil samples will be collected once under this environmental assessment. The samples will be collected from five locations (Figure 2). One soil sample will be collected at each location. The locations were selected based on known or suspected use of hazardous substances. Sample SS-1 will be collected in an area where paint chips and debris were observed. Sample SS-2 will be collected from an area where reportedly oil-contaminated soil removed from a drainfield was stored. Sample SS-3 will be collected at the base of the sander rack built from creosote logs where stained soil was observed during a preliminary site visit. Sample SS-4 near a corrugated metal loader shed where 5-gallon buckets of tar were observed. The location for sample SS-5 will be selected in the field based on visual observations of soil staining, odor, or soil storage. If these conditions are not observed, sample SS-5 will be collected near the entry gate to the property which would have experienced the most traffic flow.

The sampling sites will be located visually using site landmarks (building slab, debris piles etc.), a global positioning system (GPS) will not be used.

Surficial soil samples will be analyzed for the parameters discussed in Section 1.4.2 and summarized in Table 1.

It is not necessary to collect surface soil samples from all locations simultaneously. However, the required sampling jars for a sample from a single location should be filled sequentially.

In addition to the surficial samples, soil samples will be collected from the bottom of test pits. We estimate the test pits will extend to approximately 10 feet below ground surface. The objectives of the test pits are to characterize and sample soil efficiently and cost-effectively. The sampling design for the

test pit samples is judgmental with locations based on site historic practices.

Four test pits will be excavated to approximately 10 feet below ground surface. Excavated material will be temporarily stored adjacent to the test pit. One soil sample will be collected from the floor of each test pit near the approximate center. In the event that there are visual or olfactory indications of soil contamination in the floor of the test pit, the sample will be collected from the area where contamination is suspected. In the event that there are visual or olfactory indications of contaminated soil in the sidewalls of the test pits, additional soil samples will be collected from these suspicious areas in the sidewalls (in addition to the sample from the test pit floor). If there are visual or olfactory indications of contamination in the excavated material, a sample will be collected and the excavated material will not be used as test pit backfill until the analytical results have been assessed.

The test pit locations have been selected based on known or suspected presence of hazardous substances and/or to characterize soil at the site. The locations are presented in Figure 1. Test Pit-1 (TP-1) will be located near the former location of the fuel dispenser. TP-2 will be located near the south-west corner of the former maintenance building due to possible storage practices on the west side of the building. TP-3 will be located at the south end of the former diesel UST excavation. TP-4 will be located in the north portion of the site. Contamination is not suspected in this location and the main objective for this test pit is to characterize soil in this area.

The test pits will be located visually using site landmarks (building slab, property lines) and measurements reported in the UST removal report (WSDOT 1995). A GPS will not be used to locate the pits.

Soil samples from the test pits will be analyzed for the parameters discussed in Section 1.4.2 and summarized in Table 1.

It is not necessary to collect samples from the test pits simultaneously. However, the required sampling jars for a sample from a single pit should be filled sequentially and necessary samples of excavated material should be collected immediately upon excavation.

2. Groundwater Investigation

Four groundwater monitoring wells are present at the WSDOT-Potlatch site. These wells were inspected during a preliminary site visit. It was possible to lower a water level probe to the bottom of each well, suggesting that it may be possible to collect water quality samples from the on-site wells using a pump or bailer.

One new monitoring well will be added to the four existing wells (Section 1.3.1) as part of this environmental assessment. Previous investigations indicate groundwater flows toward the east or south-east (WSDOT 2000). Therefore, the new well will be located near the eastern property line of the site between the former maintenance facility and homes with private wells on the opposite side of Highway 101 (Figure 2). Soil samples are not intended to be collected during drilling for analytical purposes, but if contamination is observed, one sample may be submitted for analysis per the methods for testpit samples.

Following well construction, groundwater samples will be collected from the five on-site monitoring wells in one sampling round. The groundwater sample analyses are presented in Section 1.4.3 and Table 1. The objective of the groundwater sampling investigation is to assess the quality of groundwater at the WSDOT-Potlatch site. Field quality control samples (Section 2.5) will be collected at downgradient wells and analyzed for the same parameters as the downgradient wells.

B. SAMPLING METHODS

Sampling methods vary according to the sample matrix and the analyte. Sampling

methods that will be used in this study are summarized below.

1. Surficial Soil

Surficial soil samples will be collected by digging a hole to approximately 6-inches below ground surface with stainless steel spoons or trowels.

Soil for analysis of HCID, diesel-extended, PAHs, PCBs, pesticides, and metals will be collected using a clean stainless steel spoon to collect a composite sample from the hole and the excavated material. The soil will be placed in laboratory-prepared sample jars. Soil will not be homogenized prior to filling the jars.

Soil for analysis of gasoline and BTEX will be collected following **EPA** method (Appendix B). A syringe will be gently pushed into freshly exposed soil to a depth that is approximately 5 grams of soil (the desired sample volume is marked on the syringe). The syringe will then be removed from the soil and the soil sample will be extruded from the syringe into a 40-mL VOA vial. Soil that has collected in the vial threads will be quickly wiped off and the vial will be immediately sealed with septum and screw cap. In the event that the syringe does not penetrate the soil, a stainless steel spoon will be used to scoop or remove approximately 5 grams of soil into the syringe. The sample will then be extruded into VOA vials as described above. Because the potential volatile organic analyses are limited to gasoline and BTEX, it will not be necessary to collect more than 5 grams (1 VOA vile) of soil.

Following sample collection, the holes will be filled with the original soil.

Surficial soil samples will be identified on the sample jars, in field notes, and on the chain-of-custody form with unique names that correspond to the sample location (SS-1 through SS-5; Figure 2).

Between sample collections, the stainless steel spoons and trowels will be decontaminated by washing them in an Alconox solution and rinsing with distilled water. Syringes are for use one a single sample site only and will be disposed of.

2. Test Pit Soil

Soil samples from the bottom and sidewalls (if necessary, Section 2.1.1) will be collected from the backhoe bucket because of health and safety concerns. Soil that is in direct contact with the sides of the backhoe bucket will not be collected.

Soil for analysis of diesel-extended, PAHs, PCBs, pesticides, and metals will be collected using clean, stainless steel spoons or trowels. A composite sample from the bucket will be placed in laboratory-prepared sample jars. Test pit soil samples will not be homogenized prior to filling the jars.

Soil for analysis of gasoline and BTEX will be collected following EPA method 5035A (Appendix B). A syringe will be gently pushed into soil in the center of the backhoe bucket to a depth that is approximately 5 grams of soil (the desired sample volume is marked on the syringe). The syringe will then be removed from the soil and the soil sample will be extruded from the syringe into a 40-mL VOA vial. Soil that has collected in the vial threads will be quickly wiped off and the vial will be immediately sealed with septum and screw cap. In the event that the syringe does not penetrate the soil, a stainless steel spoon will be used to scoop or remove approximately 5 grams of soil into the syringe. The sample will then be extruded into VOA vial as described above. Because the potential volatile organic analyses are limited to gasoline and BTEX, it will not be necessary to collect more than 5 grams (1 VOA vial) of soil.

Test pit soil samples will be identified on the sample jars, in field notes, and on the chain-of-custody form with unique names that correspond to the test pit number and a letter indicating the position within the test pit where:

• -B = bottom

- -N = north
- -E = east
- -S = south
- -W = west
- -X = excavated material

For example, the soil sample collected from the bottom of test pit 1 will be identified TP-1-B.

Between sample collections, the stainless steel spoons and trowels will be decontaminated by washing them in an Alconox solution and rinsing with distilled water. Syringes will be disposed of.

3. Groundwater Samples

Field water quality instruments will be calibrated at the beginning (prior to sampling) and middle of each day. Calibration data will be recorded in the field notes.

The monitoring wells will be sampled using a portable, submersible pump or a stainless steel bailer. The pump and/or bailer will be decontaminated by washing them in an Alconox solution followed by rinsing in distilled water. New, disposable, polyethylene tubing will be used at each monitoring well if they are sampled with a pump. New, disposable, polypropylene rope will be used at each monitoring well if they are sampled with a bailer.

The following tasks will be performed at each well:

- Measure and record static water level to the nearest 0.01 foot using an electric well sounder and measuring tape. Water level measurement points will be the top of the PVC well casing.
- Calculate and record purge volume, which is equivalent to three casing volumes. Purge volume for a 2-inch well is calculated by subtracting the depth to water from the total well depth (Table 2) and multiplying the result by 0.49.
- Purge (remove with pump or bailer) at least the calculated purge volume from the well and monitor the discharge water for temperature,

- pH, and specific conductance at least three times during the purging period. Measure purge volume using a calibrated bucket. Record purge water volume, time, and field parameter values in the field notes.
- If, after removing the purge volume, the temperature, pH, and specific conductance are "stable," (see explanation below) sampling may begin. If the field water quality parameters continue to increase or decrease, continue purging until readings are "stable," then sample.
- Collect samples of water for laboratory analysis of parameters listed on Table 1 in a manner that minimizes volatilization of potential contaminants from the water into the air. Hands and clothing will be clean when handling sampling equipment and during sampling. Clean, disposable, latex gloves will be worn when filling bottles for analyses. Gloves will be changed when dirty and between samples. All water samples will be collected from the pump discharge lines directly into the appropriate sample containers. Samples submitted for dissolved metals analyses only will be filtered in the field prior to filling the sample container. No samples other than those to be analyzed for dissolved metals will be field filtered.

Collect samples in the following manner:

- Volatile Organic Compounds (VOCs) Fill three 40-ml vials preserved with hydrochloric acid, per sample. Slowly fill each vial until all air is removed and sample water "bulges" over the top of the vial. Wet cap with sample water and screw onto top of vial. Invert vial and tap with finger. If air bubbles are present remove lid and top up vial until water bulges over the top. Repeat capping and checking for air bubbles. The properly filled vial has NO visible air bubbles.
- Field-Filtered Metals Samples will be filtered using an in-line, disposable, 0.45micron filter such as the Sample Filter Plus or equivalent installed in the discharge line

of the pump. If a bailer is used an unpreserved 500 ml HDPE (high density polyethylene) bottle will be filled and a 12-volt peristaltic pump will be used to move the sample water from the unpreserved, intermediate bottle to the preserved, 500 ml HDPE sample bottle. A filter will be used on the discharge line of the peristaltic pump. One new filter will be used for each sample station. Sample bottles will be filled almost to the top but not overfilled.

- Other Parameters There are no headspace or filtering concerns in collecting samples for the other water quality parameters. Fill the laboratory prepared sample bottles almost to the top but not overfilled.
- Record sample identification data on each sample container, in the field notes, and on the chain-of-custody. Sample identification will be the same as the well name/number.

"Stable" is defined as:

- Specific conductance and temperature that do not indicate a trend (continuously increase or decrease between readings).
- Specific conductance and temperature that do not vary by more than 10 percent between readings.
- pH measurements that do not vary by more than 0.1 pH units between readings.

C. SAMPLE HANDLING AND CUSTODY

Following collection, soil and groundwater samples will be handled in the same manner described below. A summary of analytical holding times is presented in Table 3.

- Place sample jars/bottles in clean, insulated containers (ice chests) containing frozen gel, ice, or another compound to maintain temperature near, but not at, or below, freezing. Use sufficient cooling materials to maintain temperature near freezing during the entire time of transport to the lab.
- Maintain custody of samples from time of sampling to receipt at the laboratory. "Cus-

tody" means that samples remain: in direct possession of a person who is recorded on the Chain-of-Custody form, or locked in secure vehicles or offices.

- Complete the appropriate Chain-of-Custody forms and any other pertinent sampling/shipping documentation to accompany the samples. A summary of number of samples, sample types and analytical parameters is contained in Table 3.
- Samples will be transferred to the chemical laboratory, accompanied by Chain-of-Custody forms and any other pertinent shipping/sampling documentation. One set of Chain-of-Custody forms will be used per laboratory shipment. Sample container custody seals will be used for all shipped containers not delivered directly to the lab by Pacific Groundwater Group personnel. Seals will consist of breakable tape (such as paper masking tape) signed in ink by the person relinquishing the sample. The tape will be placed in such manner that the tape must be broken in order to open the sample container.

D. ANALYTICAL METHODS

The analytical methods for soil and groundwater samples are summarized in Table 3.

E. FIELD QUALITY CONTROL

Because of the natural heterogeneity of soil, field quality assurance/quality control (QA/QC) samples will not be collected during the soil (surface and test pit) investigation. The QA/QC for soil will be performed entirely by the laboratory.

QA/QC samples will be collected during the groundwater investigation at the WSDOT-Potlatch site. Field blank and matrix spike/matrix spike duplicate samples will be collected. We are not proposing an additional field duplicate, in part because of the small

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number of groundwater samples and in part because the MS/MSD will shed light on duplication. The QA/QC samples and sampling methods are described below.

• One water field blank will be collected during the groundwater sampling round. A field blank is collected by pouring deionized water over the sampling equipment (pump or bailer) and collecting the water in sample bottles. This sample will be labeled Skok-100 and will be handled in the same manner as the groundwater samples. The blank will be submitted to the lab as a "blind" sample and will be analyzed for the same parameters as groundwater sampled

Target acceptance criteria are discussed in Section 1.5.1.

F. LABORATORY QUALITY CONTROL

Friedman & Bruya, Inc. (F&BI), in Seattle, Washington, were selected to perform analyses of soil and water quality for the WSDOT-Potlatch project. F&BI is accredited in accordance with WAC 173-50, Accreditation of Environmental Laboratories.

EPA Contract Laboratory Program (CLP) QA/QC procedures or similar efforts will be used for the analyses. The F&BI Quality Assurance Manual is presented in Appendix A and the laboratory analysis and evaluation of quality control samples is described in the manual in depth.

Preparation batches have a maximum of 20 field samples of the same matrix. QA/QC samples processed with each batch (soil and water) are:

- One method blank. The method blank is used to assess the preparation batch for possible contamination during the preparation and processing steps. It is processed along with and under the same conditions as the associated samples.
- One laboratory control sample (LCS). The LCS is used to evaluate the performance of the

- total analytical system, including all preparation and analysis steps.
- One matrix spike (MS), if suitable. Matrix specific QA/QC samples indicate the effect of the sample matrix on the precision and accuracy of the results generated using the selected method. The information from these controls is sample/matrix specific and is not normally used to determine the validity of the entire batch.
- One matrix duplicate (MD). Matrix duplicates are replicate aliquots of the same sample taken through the entire analytical procedure. The results from this analysis indicate the precision of the results for the specific sample using the selected method. One duplicate sample is analyzed with each preparation batch. If sufficient sample is provided, this will be either a matrix spike duplicate or a matrix duplicate. If not, a laboratory control sample duplicate will be analyzed.

Target acceptance criteria are discussed in Section 1.5.1. and in Appendix A (see F&BI Quality Assurance Manual Appendix E)

VIII. REFERENCES

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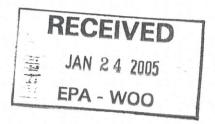
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APPENDIX A
QUALITY ASSURANCE MANUAL
FRIEDMAN & BRUYA, INC. AND SUBCONTRACTORS

APPENDIX B
U.S. EPA METHOD 5035A ANALYSIS



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A. Project management and Coordination.	1	1
B. Financial tracking.	2	2
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TASK 2. HISTORIC/BACKGROUND INFORMATION SEARCH	3	3
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1. Modification of Work Plan:

There was a modification of work plan, Kevin Bourgault the planner who was in charge of the grant left the Tribe causing a reduction and a delay in the implementation of the grant. A revised grant work plan, timeline and scope of work was undertaken by the new planner Ron Figlar-Barnes and was presented to the EPA for approval. Work plan, timeline and scope of work were approved by Debra Burgess.

2. Progress Report:

TASK 1. PROJECT PLANNING, IMPLEMENTATION, AND MANAGEMENT

This task according to our Work Plan (10/06/04) includes all activities that are required to establish planning priorities, implementation and project support activities, as well as all grant tracking, reporting, and other management components of the cooperative agreement. Specific activities include:

- 1. Project management and coordination
- 2. Financial tracking
- 3. Facilitation of public meetings
- 4. Quarterly & final report creation

Project management and coordination:

Meetings where held between Tribal staff to develop a project management and coordination plan for the grant activities included project planning. Staff included:

Ron Figlar-Barnes (Natural Resources Planner) Keith Dublanica (Natural Resources Director) Ed Binder (Senior Tribal Planner)

The project management and coordination of the grant included,

- Re-writing of work plan, timeline and scope of work.
- Developing a request for proposals for assessment of site (Attachment A-B).
- Site visits by consultants.
- Advertisement of Request for Proposals—(Attachment C).
- Receiving of bids (reviewing and screening of proposals by tribal staff).
- Awarding contract to Pacific Groundwater Group.

Pacific Groundwater Group Work Report as of Dec 31st 2004:

Contracting has been completed since before the holidays and Task 1 of the Scope of work is well underway. Pacific Groundwater Group performed environmental database reviews using Environmental Database Resources. The scope of the reviews is similar to those required for a Phase I Environmental Site Assessment. Pacific Groundwater Group made a FOIA request to Ecology's Southwest Regional Office and

found no files under names, latitude/longitude, and parcel numbers. Therefore, Pacific Groundwater Group contacted WDOT to inquire about reporting procedures for the UST removals, and to receive the site name used by WDOT. Pacific Groundwater Group have now made a second FOIA request using that name and are awaiting word from Ecology. Pacific Groundwater Group have performed some additional phone interviews and reviewed reports which indicate the presence of a 4th monitoring well, possible drinking water well, and the former presence of a dry well. They will be following up on these findings before our intending site visit to refine the locations and scope of field work. Pacific Groundwater Group hopes to make the site visit soon January 28th or the first week of February.

Financial Tracking:

EPA Grants and Project Coordinator

	W325 - WSDOT Brownfields	
	For Quarter 10/1/04 - 12/31/04	
Account Code	Account Title	YTD Actual
6000	Salaries & Wages	
6120	Employer's FICA	
6140	Workers' Comp/L&I Insurance	
6150	State Unemployment	
7555	Computer Hardware	
9060	Advertising	\$88.79
	Total W325 - WSDOT Brownfields	\$88.79

Facilitation of Public Meeting:

Public Meeting rules were undertaken to provide public comment on the selection of a consultant firms by newspaper articles and solicitation of comments from Skokomish web "Request for Proposals" scope of work and RFP page. All bids were opened by prior to 3PM and opened by 4Pm 11/05/04 for the Brownfield assessment of the WSDOT site, funded by EPA. Bids received were between \$30-\$50,000.

The 4 bids were:	Ridolfi Engineering		\$34,000	
THE TOTAL WETE.	Aspect Consulting	\sim	\$51,000	
	White Shield		\$44,900	(native –owned)
	Pacific Groundwater	\hat{a}	\$44,700	(matrixe owned)

The three highest were most comprehensive in scope response. Only White Shield was present at the opening. The Tribal attorney and Tribal council members were present. We had 7-10 days for scrutiny and discussion before awarding following Council discussion.

Council awarded the contact for assessment on 12/20/2004 (see Attachment D)



TASK 2 HISTORIC/BACKGROUND INFORMATION SEARCH

Please see Task 1 (Pacific Groundwater Group Work Report as of Dec 31st 2004)

TASK 3 HYDROLOGICAL, GEOLOGICAL, AND BIOLOGICAL STUDY

None

TASK 4 DATA ANALYSIS AND EVALUATION OF RISK

Not Due.

TASK 5 IDENTIFY CLEAN-UP ALTERNATIVES AND REPORT FINDINGS

Not Due.



REQUEST FOR PROPOSALS

1. **PROPOSALS** are requested from the Skokomish Natural Resources Department in collaboration with the Skokomish Community Development on behalf of the Skokomish Tribal Council for an Environmental Assessment of the WSDOT Potlatch Maintenance Yard in accordance with the attached Scope of Work for:

The Skokomish Indian Tribe Natural Resources Department c/o N.80 Tribal Center Road Shelton, WA 98584 360.427.6936

- a. **Form**: Each Proposal shall be submitted on a standardized form available from the Tribe at the above address. Each Proposal shall be submitted in a sealed envelope bearing the title "Skokomish Brownfield WSDOT Potlatch Maintenance Yard Environmental Assessment" and the name of the person submitting the Proposal. The Proposal accepted by the Tribe shall be included as part of the Contract.
- b. **Discrepancies:** In case of a difference between the stipulated amount of the Proposal written in words and the stipulated amount written in figures, the stipulated amount stated in written words shall govern.
- c. Modifications: Proposals shall not contain any recapitulations of the work to be done. Alternate proposals will not be considered unless called for. Oral proposals or modifications will not be considered.
- d. Examination of Scope of Work and Visit to Site: Before submitting a Proposal, Bidders shall carefully review this Request for Proposals, Scope of Work, and accompanying documents; may visit the site of work; and shall fully inform themselves as to all existing conditions and limitations and include in the Proposal a sum to cover the cost of all items included in the Scope of Work and Contract.
- e. **Delivery of Proposals**: Proposals shall be delivered to the above address by November 5th, at 3 p.m. It is the sole responsibility of the Bidder to see that his Proposal is received in proper time. Any Proposal received after the scheduled closing time for

- receipt of Proposals shall be returned to the Bidder unopened. Hand delivery, Fed/EX, UPS, or other courier accepted.
- f. Withdrawal: Any Bidder may withdraw his Proposal, either personally or by telegraphic or written request, at any time prior to the scheduled closing time for receipt of Proposals.
- g. **Opening**: Proposals will be opened and publicly read aloud on November 5th, 2004 at 4 p.m. at the Skokomish Tribal Center, Tribal Council Chambers, N. 80 Tribal Center Road, Skokomish Indian Reservation, Mason County, State of Washington.
- h. Award or Rejection: The Contract will be awarded to the lowest and/or best qualified, responsible Skokomish Tribal Member Bidder complying with these instructions. In the event that no Proposal is submitted by a qualified, responsible Skokomish Tribal Member, the Contract will be awarded to the lowest and/or best qualified, responsible Bidder who is a member of a federally recognized Indian Tribe complying with these instructions. In the event that no Proposal is submitted by a qualified, responsible member of a federally recognized Indian Tribe, the Contract will be awarded to the lowest and/or best qualified, responsible Bidder complying with these instructions. The Tribe reserves the right to reject any or all Proposals or to waive any formality or technicality in any Proposal in the interest of the Tribe. No Bidder may withdraw his Proposal for a period of thirty days after the date of opening thereof. Award will be made within 7 business days.
- 2. INTERPRETATION OF DOCUMENTS: If any person contemplating submitting a Proposal is in doubt as to the true meaning of any part of this Request for Proposals, the Scope of Work, the Contract, or the standardized Proposal form or finds discrepancies, omissions, or inconsistencies in these documents, that person may submit to the Tribe a written request for an interpretation or correction. The person submitting the request will be responsible for its prompt delivery. Any interpretation or correction of the documents will be made only by Addendum issued by the Tribe, and a copy of the Addendum will be mailed or delivered to each person who has requested the standardized Proposal form. The Tribe will not be responsible for any other explanations or interpretations of the Contract documents.
- **3. ADDENDA:** Any addenda issued by the Tribe during the time for submission of proposals, or forming a part of the Contract documents, shall be covered in the Proposal, and shall be made a part of the Contract. Receipt of each Addendum shall be acknowledged in the Proposal. No addenda shall be included in any Proposal except such addenda as may be issued by the Tribe.
- **4. BIDDERS INTERESTED IN MORE THAN ONE PROPOSAL:** No one shall be allowed to submit more than one Proposal for the same work, unless alternate Proposals are called for.

Brownfield WSDOT Potlatch Maintenance Yard Environmental Assessment SCOPE OF WORK

Revised October 7, 2004

Project Overview

This is a project to complete an environmental assessment on the Washington State Department of Transportation (WSDOT) Potlatch Maintenance Yard located along U.S. 101, (LEGAL DESCRIPTION) within the Skokomish Indian Reservation. The environmental assessment will include the following: hydrogeological contamination assessment for PCBs, lead, mercury, petroleum products, and any other toxic substances as identified by the Dangerous Waste Generic Sources "F" Code List from WAC 173-303-9904.

The environmental assessment will involve approximately forty (40) hours of site sample collection, approximately one hundred twenty (120) hours of sample analysis, and approximately forty (40) hours of report generation. The successful bidder will need to include: a detailed budget including personnel, supplies, equipment, testing fees, report reproduction fees, and travel. Additionally, the successful bidder will need to include: a timeline to include estimated start and completion dates for the sample, analysis, and reporting functions.

Project Considerations

Sample and specimen collection should be relatively simple as there are already several test wells on the property. However, drilling of additional test wells may be required depending on the location and conditions of the pre-existing test wells. Soil samples are expected to be collected at varied sites. Sampling activities should be accomplished with a project crew of approximately two (2) to three (3) technicians.

Site access to the WSDOT Potlatch Maintenance Yard is through a single locked gate, located at mile marker of Highway 101 on the west side of the road. Depending on precipitation, the WSDOT Maintenance Yard may have soft soils in certain areas. If soft or water logged soils are present, potential vehicular mobility issues may occur. However, the study site of 14+ acres is located within a fenced area and parking proximal to the study site(s) should neither pose a problem, nor prevent access. Traffic by foot is expected. It is expected that sampling for ambient conditions PRIOR to a heavy rain event, and immediately thereafter are appropriate to collect.

Water or electricity access are not present on the WSDOT Potlatch Maintenance Yard. A gas-powered generator may be required by the contractor, to be determined.

Restroom facilities are not present on the WSDOT Potlatch Maintenance Yard. There are sites in the area.

Consultant's Responsibilities

The Consultant is expected to:

- 1. Assume financial responsibility for payment of all 3rd party testing and laboratory fees.
- 2. Assume financial responsibility for payment of all copying, printing, and reproduction fees.
- 3. Provide copies of all field notes and preliminary lab reports upon completion of contract.
- 4. Complete and be responsible for the EPA's Quality Assurance Project Plan (QAPP) to be turned in at the completion of the project
- 5. Provide four (4) copies of the final contamination assessment report.

Proposed Timeline

Response to Indian Preference Pre-Qualification Request and Proposal Form due November 5, 2004 by 3:00 p.m. It is the Vendors responsibility to insure delivery of proposal is provided by due date. Opening of bid documents is tentatively scheduled for 4:00PM November 5st in the Tribal Council Room.

Accounting Department The Skokomish Indian Tribe North 80 Tribal Center Road Shelton, Washington 98584 (360) 426-4232, fax (360) 877-5943.

Contract between chosen the Consultant(s) and the Skokomish Indian Tribe due 3:00 PM November 5st, 2004. Bid opening TENTATIVELY scheduled for 4:00PM November 5st, 2004 at the Skokomish tribal Center. Environmental assessment activities as defined by contract(s) are to begin by November 5th, 2004.

Environmental assessment activities are to end no later than, May 1, 2005.

Final Report due July 31st, 2005.

Indian Preference Pre-Qualification Request

Form Attached

Proposal Form

Form Attached

Interested individuals and firms shall submit the Indian Preference Pre-Qualification Request and Proposal Form including the following information:

- Resume for each individual of the team who will be working directly on this project.
- Individual or firm's related work experience
- How you will approach the environmental assessment process.

If you have any questions, please contact the Skokomish Indian Tribe's Contracts Officer @ (360) 426-4232.

17700.0 The Olympian www.theolympian.com 111 Bethel St. NE - Olympia, 17. Lega Legals Legals Olym, The Skokomish Indian Tribe Attn: c/o N.80 Tribal Center Road Shelton, WA 98584 360 427-6936 x 209 If the Creditor's Claim is not Finan RT presented within the foregoing Phon time period, the claim will be Fax (OR forever barred except as pro-vided in RCW 11.40.051 and Proposals are due 3:00PM, November 5, 2004, with Bid Publi: 11.40.060. This bar is effective 27. 2 opening scheduled at 4:00PM) for claims against both the at the above address, Tribal Council Room. A site visit is scheduled week of 10/25/04. probate Decedent's non-probate assets. Date of First Publication of this Lega Questions please contact Skokomish Natural Resources at (360) 877-5213. Notice: October 17, 2004 REQ /s/sLorrie Nerney, To Personal Representative Address for Mailing of Service: Έ Publish: October 24, 2004 N inted P.O. Box 93 Olympia, WA 98507 ive of Purst claim Publish: October 17, 24, 31, 2004 the F resent Legal #9665 enter gotia Servi in the INVITATION TO BID FOR COURT REPORTER SERVICES Legal #9649 by any comp ations; techi LEGAL NOTICE supp The Board of Industrial Insurded in ance Appeals is inviting inter-The Skokomish Tribal Council is requesting PROPOSALS for a "Brownfield's" Environmental The f ested parties to submit bids art the for Court Reporter services for to editor's whos the entire state of Washington. Assessment of the former Washington State Department taget mailing price Bid specifications should be at the of Transportation's Potlatch Maintenance Yard, located within the Skokomish Indian evalu available for distribution on or а сору may editor's before November 1, 2004. requi Reservation boundaries on sole -Anyone interested in bidding, just be Highway 101. Scope of Work o occur and documentation with specifics can be reviewed from eiturn please contact: Each ceive after 1 sional and pard of Industrial account transaction and account transaction account transaction and account transaction account account transaction account transaction account account account account account acco otice to www.skokomish.org. RCW 1 from Har Court fiter the Winona Plant.

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Skokomish Natural Resources

Telephone: (360) 877-5213 Fax: (360) 877-5148

N.541 Tribal Center Road

Skokomish Nation, WA 98584

January 5, 2005

Deborah Burgess EPA – Brownfields Program Tribal Operations Office Desmond Lane Olympia, WA 98501 JAN 0.5 2005 EPA - WOO

RE: Skokomish Indian Tribe's Brownfields Project

Dear Ms. Burgess:

On behalf of the Skokomish Indian Nation, and its Natural Resources Department, I respectfully request your attention to the above-referenced issue. The Tribe has implemented an EPA—funded Brownfields assessment of the former WSDOT maintenance facility located within the Skokomish Indian Reservation boundaries.

The Tribe has contracted with the Pacific Groundwater Group in providing attention to the elements identified in an attached scope of work. A copy of the subsequent legal contract for performance and deliverables between the contractor and the Tribe is included as well. The Tribe is confident this vendor, with a strong analytical background, expertise and local knowledge, will satisfy the contract terms and conditions. The Tribe expects the vendor to provide recommendations as necessary, appropriate and mandated.

Thank you for your consideration in the above matter. Please do not hesitate to contact me if you have questions or concerns.

Sincerely

Keith Dublanica, Director

Skokomish Natural Resources Department

cc

Celeste Vigil, Grants Compliance Ron Figlar-Barnes, Natural Resource Planner Janet Knox, Pacific Groundwater Group



Skokomish Indian Tribe

Tribal Center (360) 426-4232 N. 80 Tribal Center Road

FAX: (360) 877-5943

Shelton, WA 9858

CONTRACT FOR SERVICES

This Agreement is made by and between the SKOKOMISH INDIAN TRIBE (hereinafter TRIBE), a federally recognized Indian Tribe located on the Skokomish Indian Reservation in Mason County, Washington (hereinafter Reservation), and PACIFIC GROUNDWATER GROUP (hereinafter VENDOR), for services set forth herein.

PURPOSE

The intent and the purpose of this agreement between the TRIBE and the VENDOR is:

to conduct an environmental assessment, utilizing EPA Brownfield support and criteria, of the former Washington State Department of Transportation Maintenance Facility property on US Highway 101 on the Skokomish Reservation. The objectives of this project are to investigate the potential presence of hazardous substances, or contaminants in soil or groundwater.

AGREEMENTS

NOW THEREFORE, in consideration of the mutual covenants contained herein, and other good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, it is mutually agreed and understood by the parties that:

- 1. TERM OF AGREEMENT: Subject to the terms and conditions contained in this Agreement, VENDOR and the TRIBE agree that the term of this Agreement shall commence December 17th 2004 and shall extend to July 30, 2005...
- TRIBAL CONTRACT REPRESENTATIVE: All written and verbal communication by 2. VENDOR to the TRIBE under this Agreement shall be through Larry Goodrow, Skokomish Tribal Manager, or his designee, such designee to be by signed writing.
 - 3. SERVICES TO BE PERFORMED BY VENDOR: VENDOR hereby agrees to perform the following services for the TRIBE:

VENDOR shall perform services as set forth in the attached Proposal To Provide Environmental Assessment Of The WSDOT Potlatch Maintenance Yard, which is hereby incorporated into this Contract for Services. In summary, these services include:

Task 1. Develop Detailed Project Understanding

- Lask 3. Soil Investigation
- Task 4. Groundwater Investigation
- Task 5. Reporting
- Task 6. Project Management
- TIMETABLE FOR PERFORMANCE OF SERVICES: as set forth in the attached WSDOT
 Potlatch Maintenance Yard Environmental Assessment Schedule of Work, which is hereby
 incorporated into the Contract for Services.
- TIME IS OF THE ESSENCE: Time is of the essence for performance of services under this Agreement.

6. PAYMENTS:

In consideration for the performance of all services listed in Section 3 of this Agreement by the VENDOR, the TRIBE agrees to pay VENDOR: A total fee of forty-four thousand eight hundred eighty-three dollars (\$ 44,883.00) as set forth in the attached Cost Estimate for WSDOT Potlatch Maintenance Yard Environmental Assessment, which is hereby incorporated into this Contract for Services, and in accordance with the attached 2004 Pacific Groundwater Group Terms and Conditions, which is hereby incorporated into this Contract for Services. Reimbursable expenses under the Terms and Conditions shall not exceed \$500.00, the invoices for which shall be accompanied by corroborating documentation (copies of travel receipts, copies of long distance phone bills, postage receipts, etc.)

- 7. WITHHOLDINGS: Under this Agreement and during the time of performance, the VENDOR is acting as an independent contractor for all purposes, including any employment insurance and tax liability. The TRIBE will not deduct federal withholding tax, social security insurance or any other payroll taxes, charges, or assessments from the agreed VENDOR fees. The TRIBE will not provide social security, labor and industries insurance, unemployment insurance, or any other insurance or benefit to the VENDOR except as specifically required by federal or tribal law.
- 8. VENDOR NOT TO ASSIGN CONTRACT: VENDOR agrees that s/he will not assign, transfer, convey, pledge, or encumber this Agreement or his/her right, title, or interest therein, or his/her power to execute same, or any monies due or to grow due hereunder, without the consent in writing of the TRIBE, this Agreement being intended to secure the personal services of the VENDOR.
- 9. NO WAIVER OF SOVEREIGN IMMUNITY: The TRIBE expressly reserves all of its inherent sovereign rights as a federally recognized Indian tribe, including sovereign immunity from suit in any state, federal or tribal court without the TRIBE'S express consent. By entering into this Agreement, the TRIBE does not waive its sovereign immunity from suit and nothing in this Agreement shall be construed to imply such a waiver.
- TERMINATION: This Agreement may be terminated as follows:

- A. By the TRIBE upon written notice to the VENDOR three (3) days prior to the commencement of performance by either party.
- B. By either party for cause, including but not limited to impossibility, frustration of purpose, waiver, expiration of the applicable limitations period, breach or nonperformance.
- Upon the mutual written consent of the VENDOR and the TRIBE.
- 11. NOTICE: Any notice, demand or other communication required to be given or delivered pursuant to this Agreement shall be in writing and shall be deemed to have been given either when personally delivered or sent by telecopy with hard copy to follow or overnight express courier or three days following mailing by registered or certified mail, postage prepaid, return receipt requested.
- 12. INTEGRATION: There are no other written or oral agreements, representations, or understandings of any kind. This Agreement constitutes the final and complete agreement of the parties.
- MODIFICATION: This Agreement may not be amended or modified except in a writing signed by both parties.
- 14. COURT AND APPLICABLE LAW: Any litigation necessary to enforce the obligations of either party under this Agreement must be brought in the Tribal Court of the Skokomish Indian Tribe to the extent jurisdiction obtains. Both as to interpretation and performance, this Agreement shall be governed by the tribal law of the Skokomish Indian Tribe; in the absence of applicable tribal law, federal law; and in the absence of applicable federal law, state law. This provision does not constitute a waiver of the Tribe's sovereign immunity.
- CONSENT TO JURISDICTION OF TRIBE: VENDOR acknowledges and agrees that:
 - A. Any person who resides within the jurisdiction of the Skokomish Tribe; conducts business or engages in a business transaction with the Skokomish Tribe or in Indian Country; receives benefits from the Skokomish Tribal government, including police, fire or emergency services; acts under Skokomish Tribal authority, or enters Indian Country shall be deemed thereby to have consented to the following:
 - To be bound by the laws of the Skokomish Indian Tribe, including but not limited to the Tribe's codes and ordinances:
 - To the exercise of civil jurisdiction by the Skokomish Tribal Court over said person; and
 - To detainment, service of summons and process, and search and seizure, in conjunction with legal actions arising pursuant to Skokomish Tribal Law.
 - B. "Indian country," consistent with the meaning given in 18 United States Code (U.S.C.) section 1151, includes:
 - All land within the limits of the Skokomish Reservation under the jurisdiction of the United States government, notwithstanding the issuance of any patent, and

including rights of way running through the reservation.

- All lands placed in trust or restricted status for individual member Indians or for ii. the Tribe, and such other lands as may hereafter be added thereto under any law of the United States, except as otherwise provided by law.
- All Indian allotments or other lands held in trust for a tribal member or the Tribe, iii. the Indian titles to which have not been extinguished, including rights of way running through the same.
- 15 h of

invalidity or unenforces this Agreement.	any provision of this Agreement is held invalid or unenforceable, subility shall not affect the validity or enforceability of any other provision	1 (
The parties hereto execute this	Agreement:	
PACIFIC GROUNDWATER	GROUP SKOKOMISH INDIAN TRIBE	
Janet Knox	+ Janl Surden Larry Goodrow, Skokomish Tribal Manage	
12-20-04	12-15-04	G#
Date	Date	
Pacific Groundwater Group 2377 Eastlake Avenue East, St Seattle, Washington 98102	Approved as to Form:	
206.329.0141 www.pgwg.com	Marlan Relent	
91-1385271 EIN/SSN	Marilou Rickert, Skokomish Tribal Attorne	y
	Date	-



Brownfield's Quarterly Report #3 April 1 --- June 30, 2004

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During this period there was no modification of the Skokomish Brownfield Assessment Work Plan.

2. Progress Report:

TASK 1. PROJECT PLANNING, IMPLEMENTATION, AND MANAGEMENT

This task according to our Work Plan (07/09/03) includes all activities that are required to establish planning priorities, implementation and project support activities, as well as all grant tracking, reporting, and other management components of the cooperative agreement. Specific activities include;

- 1. Project management and coordination
- 2. Financial tracking
- 3. Facilitation of public meetings
- 4. Quarterly & final report creation

1. Project management and coordination:

Meeting where held between Tribal staff to develop a project management and coordination plan for the grant activities included project planning. Staff included:

Kevin Bourgault (Natural Resources Planner) Keith Dublanica (Natural Resources Director) Ed Binder (Senor Tribal Planner)

In April development of Scope of Work and Contract for an environmental assessment of the WSDOT Brownfield's Property. The Skokomish Economic Development Department has completed the scope of work and contract for the environmental assessment phase of the Brownfield project and has submitted the contract for review by the Skokomish Legal Staff. Internal approval is estimated to be completed be May 3rd, 2004 and advertised by May 5th, 2004. (See attachment for a copy of the Scope of Work).

2. Financial Tracking:

EPA Grants and Project Coordinator

	W325 - WSDOT Brownfields	
	For Quarter 4/1/04 - 6/30/04	
Account Code	Account Title	YTD Actual
6000	Salaries & Wages	9,709.14
6120	Employer's FICA	742.84
6140	Workers' Comp/L&I Insurance	21.35

6150	State Unemployment	174.79
6210	Medical Insurance	1,076.04
6220	Dental Insurance	120.07
6230	Life Insurance	33.96
6260	LT Disability Insurance	31.24
7530	Equipment Rental or Lease	980.00
7555	Computer Hardware	0.00
7810	Mileage/Parking & Tolls	318.72
7840	Lodging & Perdiem	160.48
7870	Conference Fees & Registration	130.00
	Total W325 - WSDOT Brownfields	13,498.63

3. Facilitation of Public Meeting:

None

4. Quarterly & final report creation

See Progress Report #2

TASK 2 HISTORIC/BACKGROUND INFORMATION SEARCH

1. Completion of Prehistoric and Historic Survey of the WSDOT Potlatch Maintenance Yard Property

A cultural survey was performed on the site by Skokomish contract archaeologist, Gary Wessen, Ph.D. Dr. Wessen concluded that the WSDOT Potlatch Maintenance Yard had neither the site characteristics nor established history of use which would have been reflected in the elevated presence of cultural deposits according to the Skokomish Indian Tribe's cultural sensitivity model. Additionally, any cultural surface deposits that may have been present in the past have been drastically disturbed as a result of the excavation and dumping actions that had occurred on the site for the past four decades. With this the case, it was Dr. Wessen's professional opinion that this site was unlikely to possess any cultural deposits which would impede redevelopment of the WSDOT Potlatch Maintenance Yard. Despite this conclusion, all testing and excavation will still be monitored for the presence of cultural remains and will be conducted under the guidance of the Skokomish Indian Tribe's Tribal Historic Preservation Office staff and Skokomish Indian Tribe's Tribal Historic Preservation Office staff and Skokomish Indian Tribe's

There are two potential prehistoric sites within five (5) miles of the WSDOT location. These sites include:

- Enatai village
- Potlatch village

Skokomish Tribal Historic Preservation Officer, Delbert Miller, does not believe that the Brownfield project will have any impact on these sites.

There are two (2) identified historical sites within five (5) miles of this area according to the Washington State Historic Preservation Office¹. These sites include:

- Cushman No. 1 Hydroelectric Power Plant
- Cushman No. 2 Hydroelectric Power Plant

Skokomish Tribal Historic Preservation Officer, Delbert Miller, does not believe that the Brownfield project will have any impact on these sites.

TASK 3. HYDROLOGICAL, GEOLOGICAL, AND BIOLOGICAL STUDY

None

TASK 4. DATA ANALYSIS AND EVALUATION OF RISK

Not Due.

TASK 5. IDENTIFY CLEAN-UP ALTERNATIVES AND REPORT FINDINGS

Not Due.

¹ Source: http://www.cted.wa.gov/desktopdefault.aspx?tabid=686&query912=%20County%20like%20'%25MS%25'



Brownfield's Quarterly Report #4 July 1 ---September 31, 2004

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There was no modification of work plan, however, Kevin Bourgault the planner who was in charge of the grant left the Tribe causing a reduction and a delay in the implementation of the grant. A revised grant work plan, timeline and scope of work is attached.

2. Progress Report:

TASK 1. PROJECT PLANNING, IMPLEMENTATION, AND MANAGEMENT

This task according to our Work Plan (07/09/03) includes all activities that are required to establish planning priorities, implementation and project support activities, as well as all grant tracking, reporting, and other management components of the cooperative agreement. Specific activities include;

- 1. Project management and coordination
- 2. Financial tracking
- 3. Facilitation of public meetings
- 4. Quarterly & final report creation

1. Project management and coordination:

Meetings where held between Tribal staff to develop a project management and coordination plan for the grant activities included project planning. Staff included:

Kevin Bourgault (Natural Resources Planner) Keith Dublanica (Natural Resources Director) Ed Binder (Senior Tribal Planner)

2. Financial Tracking:

EPA Grants and Project Coordinator

	W325 - WSDOT Brownfields For Quarter 7/1/04 - 9/30/04	
Account Code	Account Title	YTD Actual
6000	Salaries & Wages	884.03
6120	Employer's FICA	67.63
6140	Workers' Comp/L&I Insurance	1.94
6150	State Unemployment	15.91
7555	Computer Hardware	93.98
	Total W325 - WSDOT Brownfields	1,063.49

Skokonish Trbal Assessment Grant

Brownfield's Quarterly Report #1 October 1 ---December 31, 2003

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During this period there was no modification of the Skokomish Brownfield Assessment Work Plan.

2. Progress Report:

TASK 1. PROJECT PLANNING, IMPLEMENTATION, AND MANAGEMENT

This task according to our Work Plan (07/09/03) includes all activities that are required to establish planning priorities, implementation and project support activities, as well as all grant tracking, reporting, and other management components of the cooperative agreement. Specific activities include;

- 1. Project management and coordination
- 2. Financial tracking
- 3. Facilitation of public meetings
- 4. Quarterly & final report creation

1. Project management and coordination:

Meeting where held between Tribal staff to develop a project management and coordination plan for the grant activities included project planning. Staff included:

Kevin Bourgault (Natural Resources Planner) Keith Dublanica (Natural resources Director) Ed Binder (Senor Tribal Planner)

2. Financial Tracking:

EPA Grants and Project Coordinator

	W325 - WSDOT Brownfields	
	For Quarter 10/1/03 - 12/31/03	
Account Code	Account Title	YTD Actual
7530	Equipment Rental or Lease	0.00
	Total W325 - WSDOT Brownfields	0.00

3. Facilitation of Public Meeting:

None—BECAUSE OF WORK LOAD. Staff starting to gear up for project research.

4. Quarterly & final report creation

None—BECAUSE OF WORK LOAD. Staff starting to gear up for project research.

TASK 2. HISTORIC/BACKGROUND INFORMATION SEARCH

None—due to other obligation.

TASK 3. HYDROLOGICAL, GEOLOGICAL, AND BIOLOGICAL STUDY

Staff worked on some small preliminary searches for background data i.e., "Rapid Infiltration Hydrogeologic Study on the WDOT-Skokomish Site", November 2000. A report by the Washington Department of Ecology (Publication No. 00-03).

Reviewed Washington Department of Ecology (Publication No. 00-XXX) Groundwater Mounding Analysis WDOT-Skokomish.

TASK 4. DATA ANALYSIS AND EVALUATION OF RISK

Not Due.

TASK 5. IDENTIFY CLEAN-UP ALTERNATIVES AND REPORT FINDINGS

Not Due.



Brownfield's Quarterly Report #2 January 1 --- March 31, 2004

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During this period there was no modification of the Skokomish Brownfield Assessment Work Plan.

2. Progress Report:

TASK 1. PROJECT PLANNING, IMPLEMENTATION, AND MANAGEMENT

This task according to our Work Plan (07/09/03) includes all activities that are required to establish planning priorities, implementation and project support activities, as well as all grant tracking, reporting, and other management components of the cooperative agreement. Specific activities include;

- 1. Project management and coordination
- 2. Financial tracking
- 3. Facilitation of public meetings
- 4. Quarterly & final report creation

1. Project management and coordination:

Meetings where held between Tribal staff to develop a project management and coordination plan for the grant activities included project planning. Staff included:

Kevin Bourgault (Natural Resources Planner) Keith Dublanica (Natural resources Director) Ed Binder (Senor Tribal Planner)

2. Financial Tracking:

EPA Grants and Project Coordinator

W325 - W	YSDOT Brownfields	
	For Quarter 1/31/04 - 3/31/04	
Account		YTD
Code	Account Title	Actual
6000	Salaries & Wages	3,929.88
6120	Employer's FICA	300.68
6140	Workers' Comp/L&I Insurance	8.65
6150	State Unemployment	70.73
6210	Medical Insurance	418.45
6220	Dental Insurance	46.69
7110	Program Supplies	1,092.36
7810	Mileage/Parking & Tolls	55.35
	Total W325 - WSDOT Brownfields	5,922.79

3. Facilitation of Public Meeting:

None—BECAUSE OF WORK LOAD.

4. Quarterly & final report creation

See Progress Report # 1

TASK 2. HISTORIC/BACKGROUND INFORMATION SEARCH

1. Historical document search for the Washington State Department of Transportation (WSDOT) Potlatch Maintenance Yard Property

A historic document search was performed by Kevin Bourgault, Skokomish Economic Development Planner and Keith Dublanica, Skokomish Natural Resources Director to determine historical usage of the WSDOT Potlatch Maintenance Yard Property previous to its use as an equipment and materials depot for the Washington State Department of Transportation. Documents and photographs identify the site as timbered land and undeveloped residential property. These conclusions were also reconfirmed with community members through oral histories.

2. Collection of WSDOT material logs for petroleum, oil, lubricant (POL) and pesticides
Hazardous material logs were requested from the WSDOT property by Keith Dublanica, Skokomish
Natural Resources Director from, Larry Deemer, WSDOT regional supervisor. Though Larry
Deemer has yet to produce the logs, the WSDOT has provided the Skokomish Department of
Natural Resources with locations of underground petroleum storage tanks. Excluding the petroleum
storage tanks, the WSDOT claims that it has no record of any declared hazardous materials.
However, current employees of the WSDOT that used to work at the site did admit to rumors of
hazardous substances being stored and disposed "out back." These employees recommended that
the project manager try and contact the retired ex-WSDOT Potlatch Maintenance Yard Supervisor,
Jim Tobin to question him more thoroughly on this matter. To date, Jim Tobin has not been found
to comment.

TASK 3. HYDROLOGICAL, GEOLOGICAL, AND BIOLOGICAL STUDY

Staff began to preliminary research for background data. Continued to analyses November 2000 report by the Washington Department of Ecology (Publication No. 00-03-0??) Rapid Infiltration Hydrogeologic Study on the WDOT-Skokomish Site.

Reviewed Washington Department of Ecology (Publication No. 00-XXX) Groundwater Mounding Analysis WDOT-Skokomish.

Biological and Habitat Review. Biological and habitat review of the site was completed by Skokomish Timber, Fish, and Wildlife biologist, Marty Ereth and Skokomish Timber, Fish, and Wildlife Technician Jeff Heinis on March 20th, 2004. In their professional opinion, there does not appear to be any apparent evidence of contamination in either the flora or fauna either on the WSDOT site or downstream from this area. A report of their findings will be completed and

submitted upon completion of their annual stream survey project which is currently underway. A copy of this report will be submitted with the 3rd Skokomish Brownfield progress report.

TASK 4. DATA ANALYSIS AND EVALUATION OF RISK

Not Due.

TASK 5. IDENTIFY CLEAN-UP ALTERNATIVES AND REPORT FINDINGS

Not Due.